

ELIAS

MATH

Final revision 2023 / 2024

Grade 5

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جميع الاسئلة بالملحق وردت بامتحانات الادارات للمحافظات

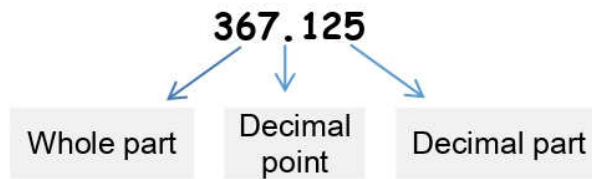
ELIAS

General revision for units

جميع الاسئلة بالملحق وردت بامتحانات الادارات للمحافظات

Summary of unit 1

> Decimal number:



> Place value and value of decimal number:

367.125							
Place value	Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
Value	300	60	7	.	0.1	0.02	0.005

> Reading decimal number:

135.46

Reading as: one hundred thirty-five and forty-six hundredths

3.075

Reading as: two and seventy five thousandths

> Converting decimal number:

✓ Convert from fraction to decimal:

• $4 \frac{356}{1,000} = \underline{4.356}$ • $\frac{7}{100} = \underline{0.07}$

✓ Convert from unit to standard:

- 4 tenths, 5 hundredths, 1 thousandths = **0.451**
- 3 hundredths, 6 thousandths = **0.036**

> Multiplying and dividing by 10 and 100:

✓ Multiplying by 10

EX: $3.5 \times 10 = 35$

- The decimal point moves one place to right
- Each digit moves one place to left
- The value of each digit increases 10 times.

✓ Dividing by 10

EX: $45.26 \div 10 = 4.526$

- The decimal point moves one place to left
- Each digit moves one place to right
- The value of each digit decreases 10 times.

> Forms of decimal number:

✓ Standard form:	42.365
✓ Decomposing form:	1st way (Expanded): $40 + 2 + 0.3 + 0.06 + 0.005$ 2nd way: $42 + 0.3 + 0.06 + 0.005$ 3rd way: $42 + 0.365$
✓ Word form:	Forty-two and three hundred sixty-five thousandths
✓ Unit form:	4 tens, 2 ones, 3 tenths, 6 hundredths, 5 thousandths

➤ Comparing decimals:

Ex: $2.35 < 4.18$

$0.253 < 0.721$

$2.490 > 2.365$

➤ Rounding decimals:

✓ To the nearest **whole** (ones):

EX: $64.72 \approx 65$

✓ To the nearest **tenth** (one decimal place):

EX: $0.628 \approx 0.6$

✓ To the nearest **hundredth** (two decimal places):

EX: $23.495 \approx 23.50$

➤ Adding and subtracting decimals:

✓ **Adding** decimals:

EX: $36.254 + 1.48 = \dots\dots\dots$

$$\begin{array}{r} 1 \\ 36.254 \\ + 1.480 \\ \hline 37.734 \end{array}$$

✓ **Subtracting** decimals:

EX: $5.46 - 2.347 = \dots\dots\dots$

$$\begin{array}{r} 5 \quad 10 \\ 5.460 \\ - 2.347 \\ \hline 3.113 \end{array}$$

➤ Estimating adding or subtracting decimals:

✓ **Rounding** estimation:

- Round each number firstly, then add or subtract

EX : estimate by rounding to the nearest whole:

$3.27 + 0.54 = 3 + 1 = 4$

✓ **Front-end** estimation:

- Write the first digit from left, then replace the rest digits by zeroes.

EX : estimate by using front end estimation:

$23.24 + 0.4 = 20.00 + 0.0 = 20$

✓ **Benchmark** estimation:

- Delete decimal part and Replace the tenths place by 0, 5 or 10

EX : estimate by using benchmark:

$1.6 + 2.9 = 1.5 + 3.0 = 4.5$

➤ Decimal story problems:

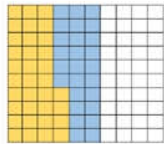
- Addition keywords (+): [sum - together - all - total]
- Subtraction keywords (-): [difference - more than - remain - rest - left]

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(1) Choose the correct answer:

- The place value of the digit 3 in the number 15.32 is
a. Ones b. Hundreds c. Tenths d. Thousandths
- The value of the digit 4 in the number 3.514 is
a. 40,000 b. 400 c. 0.4 d. 0.004

- 3) Sixty-four and sixty-four thousandths =
 a. 46.046 b. 64.064 c. 64.64 d. 46.46
- 4) $\frac{469}{1,000} = \dots\dots\dots$
 a. 4.96 b. 0.469 c. 459 d. 4.69
- 5) The decimal fraction 0.053 reads
 a. Fifty-three hundredths b. Fifty-three hundreds
 c. Thirty-five hundredths d. Fifty-three thousandths
- 6) $30 + 0.04 + 0.005 = \dots\dots\dots$
 a. 30.045 b. 30.45 c. 30.405 d. 30.504
- 7) $489.51 = 489 + \dots\dots\dots$
 a. 0.51 b. 51 c. 1.51 d. 5.1
- 8) 6 ones + 5 tenths + 7 thousandths =
 a. 0.756 b. 6.507 c. 657 d. 6,507
- 9) 8 hundredths equivalent to thousandths
 a. 80 b. 8 c. 800 d. 0.008
- 10) $3.7 \times 100 = \dots\dots\dots$
 a. 37 b. 370 c. 3,700 d. 0.37
- 11) $65.2 \div 10 = \dots\dots\dots$
 a. 0.652 b. 65.2 c. 6.52 d. 652
- 12) $2.13 \times \dots\dots\dots = 2,130$
 a. 10 b. 100 c. 1,000 d. 10,000
- 13) $23.4 \div \dots\dots\dots = 2.34$
 a. 10 b. 100 c. 1,000 d. 10,000
- 14) $36.5 \dots\dots\dots 35.6$
 a. > b. < c. = d. Otherwise
- 15) $25.12 \dots\dots\dots 25.056$
 a. > b. < c. = d. Otherwise
- 16) $0.004 \dots\dots\dots \frac{4}{1,000}$
 a. > b. < c. = d. Otherwise

- 17) $5.36 > \dots\dots\dots$
 a. 5.37 b. 5.362 c. 5.366 d. 3.561
- 18) The smallest decimal number from the following is
 a. 8.8 b. 8.90 c. 8.1 d. 7.5
- 19) Which digit can be placed in the square to make the mathematical expression is correct?
 $348.389 < 34 \square .13$
 a. 5 b. 6 c. 8 d. 9
- 20) $18.58 \approx \dots\dots\dots$ [to the nearest whole number]
 a. 59 b. 19 c. 18 d. 18.6
- 21) $1.450 \approx \dots\dots\dots$ [to the nearest tenth]
 a. 10 b. 1 c. 1.5 d. 15
- 22) $3.649 \approx \dots\dots\dots$ [to the nearest 2 decimal places]
 a. 3.74 b. 3.65 c. 3.54 d. 4.6
- 23) The rounding of the decimal number 9.325 to the nearest is 9.33
 a. Tenth b. Hundredth c. Thousandth d. Whole
- 24) $4.14 + 3.05 = \dots\dots\dots$
 a. 7.58 b. 1.19 c. 7.19 d. 740
- 25) $45.9 - 13.33 = \dots\dots\dots$
 a. 34.7 b. 35.1 c. 20.1 d. 32.57
- 26) Which of the following expressions represent the opposite model?
 a. $0.32 + 0.2$ b. $0.34 + 0.26$
 c. $0.27 + 0.33$ d. $0.24 + 0.36$
- 
- 27) 8 hundredths – 5 hundredths =
 a. 3 b. 300 c. 0.3 d. 0.03
- 28) 5 tenths – 35 hundredths = hundredths
 a. 15 b. 35 c. 30 d. 5
- 29) The estimate of the sum of $35.762 + 63.014$ is
 a. 99 b. 80 c. 98.76 d. 110

- 30) The estimation of $0.5 + 0.7$ by rounding to the nearest whole is
 a. 1 b. 2 c. 1.2 d. 0.3
- 31) The estimation of $0.91 + 2.52$ by using benchmark strategy is
 a. 2 b. 3 c. 2.5 d. 3.5
- 32) The estimation of $37.42 - 11.42$ by using front-end strategy is
 a. 20 b. 26 c. 30 d. 36
- 33) = $90 + 6 + 0.07$
 a. 96.7 b. 96.07 c. 9.67 d. 9.067
- 34) $0.2 + \dots = 7.2$
 a. 7 b. 0.7 c. 70 d. 0.007
- 35) If multiply decimal number by 10, then decimal point will move to
 a. Left b. Right c. Not move d. Other
- 36) $0.12 \times 10 \dots 2.1 \times 10$
 a. > b. < c. = d. Otherwise
- 37) $\times 5 = 5,000$
 a. 100 b. 1,000 c. 10,000 d. 100,000
- 38) The benchmark of 0.85 is
 a. 0.5 b. 1 c. 0 d. 85
- 39) $0.05 + 0.05 = \dots$
 a. 0.55 b. 0.1 c. 10 d. 5.5
- 40) 7 tenths + 3 tenths =
 a. 1 b. 10 c. 100 d. 1,000

(2) Complete:

- 1) The value of the digit 6 in the number 36.059 is
- 2) The place value of the digit 7 in the number 91.374 is
- 3) The digit in the hundredth place in the number 3.456 is
- 4) 6 tenths = hundredths
- 5) The number of tenths in the decimal fraction 0.76 equal tenths

- 6) Thirty-six and twenty five hundredths in digits is
- 7) The number $4 + 0.2 + \frac{4}{100} + \frac{9}{1,000}$ in standard form is
- 8) 3.06 in word form is
- 9) $3 + 3 \text{ tenths} + 3 \text{ hundredths} = \dots\dots\dots$
- 10) $40 + 8 + 0.5 + 0.06 = \dots\dots\dots$
- 11) $78.65 \times 10 = \dots\dots\dots$
- 12) $73.68 \div \dots\dots\dots = 7.368$
- 13) The rounding of the number 35.546 to the nearest hundredth is
- 14) $5.238 + 3.65 = \dots\dots\dots$
- 15) $8.659 - 4.32 = \dots\dots\dots$
- 16) The estimation of $26.32 + 39.9$ by rounding to the nearest whole is
- 17) 5 thousandths + 73 hundredths = thousandths
- 18) $1,000 \times \dots\dots\dots = 60,000$

3) Answer the following:

- 1) Decompose the number 80.507 using the expanded form
.....
- 2) Ola saved 17.25 pounds, and her brother saved 8.5 pounds. Find the sum they saved
.....
- 3) Ahmed catches a fish its length is 22.5 cm and Assem catches a fish its length is 13.2 cm. find the difference between the lengths of the two fish.
.....
- 4) Two gold bars , if the weight of the first is 3.39 kg and the weight of the second is 6.08 kg, Calculate the weight of the two gold bars.
.....
- 5) Which is greater 3,508.42 or 358.32?
.....
- 6) Order from least to the greatest: 0.096 , 2.56 , 1.26 , 0.27
.....
- 7) Order from greatest to smallest: 80.21 , 8.102 , 80.012 , 80.09
.....

Summary of unit 2

➤ Equation and expression:

✓ Mathematical expression:	Doesn't contain equal sign	EX: • $m + 3.5$ • $3.2 + 5.61$
✓ Equation:	contains the equal sign " $=$ "	EX: • $x + 3 = 5$

➤ Equation and variable:

Equation:	$3.5 - x = 2.4$	
Variable:	The symbol or letter in the equation	EX: x, y, z, m, n, \dots
Solving equation:	find the value of the variable in the equation	
EX: $m + 2.31 = 5.64$	EX: $x - 4.35 = 1.24$	EX: $5.2 + \dots = 8.4$
Sol: <div style="border: 1px solid black; padding: 2px; display: inline-block;"> $\begin{array}{r} 5.67 \\ m \quad 2.31 \\ \hline m = 5.67 - 2.31 \\ m = 3.36 \end{array}$ </div>	Sol: $x = 4.35 + 1.24$ $x = 5.59$	Sol: $8.4 - 5.2 = 3.2$

➤ Writing equation:

- **Addition** key words(+): plus, add, sum, increase
- **Subtraction** keywords (-): subtract, difference, decrease, remain, rest, more than

EX: If we add a number to 1.6 the sum is 4.8

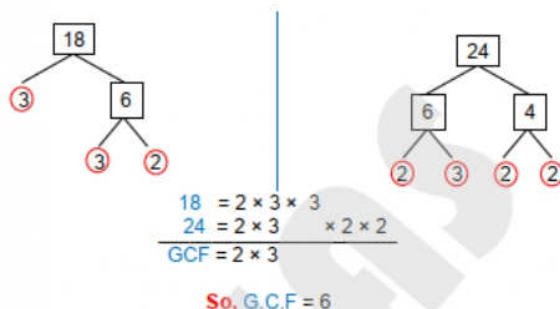
Sol: $m + 1.6 = 4.8$

➤ Factors and multiples:

• Find G.C.F

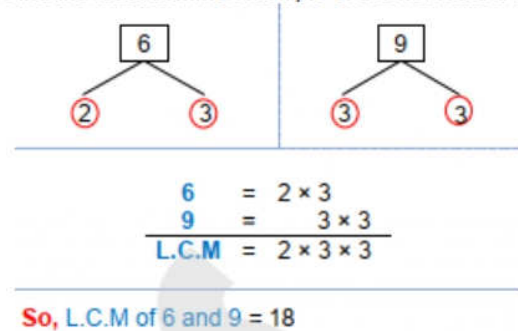
EX: Find the greatest common factor of the numbers 18 and 24

Sol:



• Find L.C.M

EX: Find the least common multiple of the numbers 6 and 9



- The **prime** number has only **two factors** (1 and it self)

EX:
$$\begin{array}{r|l} 5 & \\ 1 & 5 \end{array}$$

- The **composite** number has **more than two** factors

EX:
$$\begin{array}{r|l} 8 & \\ 1 & 8 \\ 2 & 4 \end{array}$$

- To find a number from its prime factors , **multiply their prime factors**

EX: the number that its prime factors 2, 2, 3 is **12**

- The **prime** numbers: **2, 3, 5, 7, 11, 13, 17,**
- The only **even prime** number is **2**
- The **smallest prime** number is **2**
- The **smallest odd prime** number is **3**
- The **common factor** of all numbers is **1**
- The **common multiple** of all numbers is **0**
- The **G.C.F** of any **two prime** numbers is **1**
- The **L.C.M** of any **two prime** numbers is **their product**

➤ **Relation between factors and multiples:**

- Any number** is a **factor** and **multiple** of **itself**

Ex: $1 \times 6 = 6$ $2 \times 3 = 6$

- 1, 6, 2, 3** are **factors** of **6**
- 6** is a **multiple** of each of **1, 6, 2, 3**

$$\begin{array}{ccccc} 2 & \times & 3 & = & 6 \\ \downarrow & & \downarrow & & \downarrow \\ \text{factor} & & \text{factor} & & \text{multiple} \end{array}$$

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(1) Choose the correct answer:

1) Which of the following represents an equation

- a. $4.8 + 2.5$ b. $x - 5 = 3.14$ c. $y + 4.8$ d. $9 - b$

2) $y + 12$ is called

- a. Expression b. Equation c. Place value d. Value

3) The variable in the equation $56.4 + x = 96$ is

- a. 56.4 b. x c. 96 d. 6.5

4) Which of the following equations represent the mathematic operation:
[6 plus a number equal 11]?

- a. $B - 11 = 6$ b. $B - 6 = 11$ c. $6 + 11 = B$ d. $6 + B = 11$

- 5) The value of variable $x + 4.5 = 8$ is
 a. 35 b. 4.5 c. 3.5 d. 5.5
- 6) By using the bar model: the value of m is
 a. 2.8 b. 1.64
 c. 1.8 d. 0.36
- | | |
|---|------|
| | 3.16 |
| m | 2.8 |
- 7) The number 7 has factors.
 a. 1 b. 2 c. 3 d. 4
- 8) is the only even prime number
 a. 0 b. 1 c. 2 d. 3
- 9) The prime factors of the number 18 are
 a. 2, 2 and 3 b. 2,3 and 3 c. 6 and 2 d. 4 and 3
- 10) The number whose its prime factors are 2,2,3 is
 a. 7 b. 8 c. 12 d. 18
- 11) The common factor of all numbers is
 a. 0 b. 1 c. 2 d. 3
- 12) The number where the sum of its factor is 8 is
 a. 2 b. 3 c. 5 d. 7
- 13) The prime factors of 12 are
 a. 2,2 and 3 b. 1,2 and 3 c. 2, 3, 5 d. 2, 3, 4
- 14) The G.C.F of 20 and 30 is
 a. 1 b. 4 c. 5 d. 10
- 15) The G.C.F of 5 and 7 is
 a. 12 b. 35 c. 1 d. 0
- 16) The number is a multiple of 5
 a. 6 b. 9 c. 37 d. 20
- 17) The number is a common multiple of 3 and 5 together.
 a. 10 b. 8 c. 15 d. 20
- 18) The multiple of any number is
 a. 0 b. 1 c. 2 d. 3

19) The L.C.M of 5 and 10 is

a. 5

b. 10

c. 15

d. 20

20) The L.C.M of 2 and 7 is

a. 2

b. 7

c. 14

d. 9

(2) Complete:

1) The variable in the equation $x + 5 = 9$ is

2) If $y + 1.2 = 7.5$, then $y =$

3) If $a - 1.241 = 0.213$, then $a =$

4) In the bar model

30.8	
a	19.5

, the value of $a =$

5) The equation which represents the model is

6.5	
p	3.2

6) The number whose prime factors are 2,2,5 is

7) The number 11 has factors

8) The G.C.F of 16 and 24 is

9) The G.C.F of 2 and 3 is

10) The L.C.M of 6 and 12 is

11) The number is a factor of all numbers

12) is a multiple of all numbers

(3) Answer the following:

1) Find the greatest common factor [G.C.F] of 12 and 18

.....

2) Write the prime factors of 35 and 28, then find the G.C.F for them.

.....

3) Find L.C.M for the two numbers 8 and 12

.....

4) Find the L.C.M and G.C.F for the two numbers 6 and 10

.....

Summary of unit 3

➤ Multiplying by a 2-digit number:

1. Area model:	2. Distributive property:	3. Standard algorithm
32×46	53×68	37×42
$\begin{array}{r} 40 \quad 30 \quad 2 \\ 6 \quad 1,200 \quad 80 \\ \quad 180 \quad 12 \\ \hline 1,472 \end{array}$	$\begin{aligned} 53 \times 68 &= (50 + 3) \times (60 + 8) \\ &= (50 \times 60) + (50 \times 8) + (3 \times 60) + (3 \times 8) \\ &= 3,000 + 400 + 180 + 24 \\ &= \underline{3,604} \end{aligned}$	$\begin{array}{r} 2 \\ 1 \\ 37 \\ \times 42 \\ \hline 174 \\ + 1480 \\ \hline \underline{1,554} \end{array}$

➤ Estimate the product:

1. Round to the greatest place value:	2. Front-end estimation strategy:
EX: 32×574 Estimate: $30 \times 600 = 18,000$	EX: 43×382 Estimate: $40 \times 300 = 12,000$

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(1) Choose the correct answer:

- $(3 \times 61) + (5 \times 61) = \dots \times 61$
 a. 53 b. 35 c. 8 d. 6
- $(40 \times 23) + (2 \times 23) = \dots \times 23$
 a. 24 b. 42 c. 8 d. 6
- $(11 \times 3) + (11 \times 20) + (11 \times 100) = 11 \times \dots$
 a. 123 b. 321 c. 213 d. 210
- The area model of multiplication equation: 26×18 is
 a. $\begin{array}{r} 2 \quad 6 \\ 1 \quad 2 \quad 6 \\ 8 \quad 16 \quad 48 \end{array}$ b. $\begin{array}{r} 20 \quad 6 \\ 10 \quad 2 \quad 60 \\ 8 \quad 160 \quad 480 \end{array}$ c. $\begin{array}{r} 20 \quad 6 \\ 10 \quad 200 \quad 60 \\ 8 \quad 160 \quad 48 \end{array}$ d. $\begin{array}{r} 80 \quad 2 \\ 10 \quad 800 \quad 20 \\ 6 \quad 480 \quad 12 \end{array}$

5) The missing number in the opposite area model is

- a. 6 b. 60
c. 600 d. 500

	20	5
30	150
2	40	10

6) From the opposite model, the value of y is

- a. 300×6 b. 60×6
c. 4×6 d. 60×30

	300	60	4
30	9,000	1,800	120
6	1,800	y	24

7) The opposite area model represents multiplication problem:

- a. 25×34 b. 25×43
c. 52×43 d. 52×34

	20	5
40	800	200
3	60	15

8) Estimate of the product of 971×23 is

- a. 20,000 b. 8,000 c. 2,000 d. 20

9) The result of estimation of: 603×97 by using rounding to the nearest ten is

- a. 600 b. 6,000 c. 60,000 d. 7,000

10) $23 \times \dots = 2,300$

- a. 10 b. 100 c. 1,000 d. 10,000

11) $45 \times 33 = \dots$

- a. 1,845 b. 1,485 c. 1,548 d. 8,154

12) A train consist of 12 wagons, each wagon has 48 seats, then the number of seats in the train = seat

- a. 4 b. 36 c. 60 d. 576

13) If $5 \times v = 45$, then $v = \dots$

- a. 5 b. 9 c. 30 d. 1

14) A shoes costs 400 L.E, which is 4 times as much as shirt costs, then a shirt costs = L.E

- a. 500 b. 396 c. 300 d. 100

(2) Complete:

- 1) $234 \times 57 = (200 \times 50) + (200 \times 7) + (30 \times 50) + (30 \times \dots) + (4 \times 50) + (4 \times 7)$
- 2) $43 \times 26 = (3 \times 6) + (3 \times 20) + (40 \times 6) + (40 \times \dots)$
- 3) $78 \times \dots = (3 \times 8) + (20 \times 8) + (3 \times 70) + (20 \times 70)$
- 4) $9 \times 27 = (9 \times \dots) + (9 \times 7)$
- 5) $(6 \times 87) + (2 \times 87) = \dots \times 87$
- 6) $130 \times 30 = \dots$
- 7) $4,231 \times 3 = \dots$
- 8) Sara bought 36 books for 100 L.E each. She paid =
- 9) If $4 \times m = 16$, then the value of $m = \dots$
- 10) $\dots \times 9 = 900,000$
- 11) The product of 899×11 is closer to the product of $\dots \times \dots$
- 12) The ones digit of the product $2,145 \times 32$ will be

(3) Answer the following:

- 1) A group of 48 people want to travel by bus. Each bus ticket costs 175 L.E. How much do they need to pay in all?
.....
- 2) Ahmed has 300 pounds to spend on new clothes. If he bought 12 pair of socks for 18 pounds a pair. How much money will he have left to spend?
.....
- 3) Youssef walk every day 5 km, if he walk 154 days in the year. How many kilometers did he walk?
.....

Summary of unit 4

➤ dividing by a 2-digit number:

1. Area model

$$1,625 \div 13$$

	100	20	5
13	$\begin{array}{r} 1,625 \\ - 1,300 \\ \hline 325 \end{array}$	$\begin{array}{r} 325 \\ - 260 \\ \hline 65 \end{array}$	$\begin{array}{r} 65 \\ - 65 \\ \hline 00 \end{array}$

$$\begin{aligned} 13 \times 1 &= 13 \\ 13 \times 2 &= 26 \\ 13 \times 3 &= 39 \\ 13 \times 4 &= 52 \\ 13 \times 5 &= 65 \\ 13 \times 6 &= 78 \\ 13 \times 7 &= 91 \\ 13 \times 8 &= 104 \\ 13 \times 9 &= 117 \\ 13 \times 10 &= 130 \end{aligned}$$

$$1,625 \div 13 = 125$$

2. Standard algorithm

$$1,625 \div 13$$

$\begin{array}{r} 125 \\ 13 \overline{) 1,625} \\ \underline{- 13} \\ 32 \\ \underline{- 26} \\ 65 \\ \underline{- 65} \\ 00 \end{array}$	$\begin{array}{r} 13 \times 1 = 13 \\ 13 \times 2 = 26 \\ 13 \times 3 = 39 \\ 13 \times 4 = 52 \\ 13 \times 5 = 65 \\ 13 \times 6 = 78 \\ 13 \times 7 = 91 \\ 13 \times 8 = 104 \\ 13 \times 9 = 117 \\ 13 \times 10 = 130 \end{array}$	$\begin{array}{r} 16 \\ 32 \\ 65 \end{array}$
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$$1,625 \div 13 = 125$$

➤ Estimate the quotient:

EX: estimate the quotients of each of the following:

$$8,325 \div 18$$

Estimate: $8,000 \div 20 = 400$

$$11,721 \div 42$$

Estimate: $12,000 \div 40 = 300$

➤ Relation between multiplication and division:

$$\text{Dividend} = (\text{divisor} \times \text{quotient}) + \text{remainder}$$

$$7,704 \div 35$$

$\begin{array}{r} 220 \\ 35 \overline{) 7,704} \\ \underline{- 70} \\ 70 \\ \underline{- 70} \\ 04 \end{array}$	$\begin{array}{r} 35 \times 1 = 35 \\ 35 \times 2 = 70 \\ 35 \times 3 = 105 \\ 35 \times 4 = 140 \\ 35 \times 5 = 175 \\ 35 \times 6 = 210 \end{array}$	$\begin{array}{r} 70 \\ 77 \end{array}$
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$$\begin{array}{ccccccc} 7,704 & = & 35 & \times & 220 & + & 4 \\ \text{dividend} & & \text{divisor} & & \text{quotient} & & \text{remainder} \end{array}$$

$$7,704 \div 35 = 220 \text{ R } 4$$

➤ Operations keywords:

- **Addition** keywords (+): add – sum – together – all – total
- **Subtraction** keywords (-): difference – remain – left – rest – decrease – more than
- **Multiplication** keywords (×): multiply – product – times
- **Division** keywords (÷): divide – distribute – split – cut into

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(1) Choose the correct answer:

- The divisor in $216 \div 43 = 5 \text{ R}1$ is
a. 216 b. 43 c. 5 d. 1
- $640 \div \dots = 640$
a. 0 b. 1 c. 10 d. 100
- $29 \div 4 = 7 \text{ R} \dots$
a. 0 b. 1 c. 2 d. 3
- $1,515 \div 15 = \dots$
a. 11 b. 101 c. 1,001 d. 15
- If $3,012 \div 12 = 251$, then $251 \times 12 = \dots$
a. 3,012 b. 3,013 c. 3,014 d. 3,015
- Quotient of $7,668 \div 54$ is
a. 142 b. 124 c. 214 d. 241
- If $26 \times 352 = 9,152$, then $9,155 \div 26 = \dots$
a. 352 b. 352 R1 c. 352 R2 d. 352 R3
- $4,150 \div 29 = 143 \text{ R} \dots$
a. 4 b. 2 c. 1 d. 3
- From the opposite model, the quotient is
a. 5 b. 20
c. 100 d. 125

	100	20	5
5	$\begin{array}{r} 625 \\ - 500 \\ \hline 125 \end{array}$	$\begin{array}{r} 125 \\ - 100 \\ \hline 25 \end{array}$	$\begin{array}{r} 25 \\ - 25 \\ \hline 00 \end{array}$

10) The division equation which represents the opposite area model is

a. $975 \div 25 = 39$ b. $39 \div 25 = 975$

c. $975 \div 25 = 38$ d. $975 \div 25 = 31$

	30	8	1
	975	225	25
25	- 750	- 200	- 25
	225	25	00

11) The divisor in the opposite area model is

a. 100 b. 50

c. 7 d. 150

	100	50
	1,050	350
7	- 700	- 350
	350	000

12) The remainder in the opposite model is

a. 216 b. 15

c. 3,248 d. 8

	200	10	6
	3,248	248	98
15	- 3,000	- 150	- 90
	248	98	08

(2) Complete:

- 1) If $325 \div 25 = 13$, then 25 is called
- 2) If $676 \div 52 = 13$, then the dividend is
- 3) The quotient in $480 \div 10 = 48$ is
- 4) The quotient of $54 \div 5 = 10$, then the remainder is
- 5) The remainder of divided 17 by 5 is
- 6) $34 \div 4 = 8 \text{ R } \dots\dots\dots$
- 7) $45 \div 5 = 9 \text{ R } \dots\dots\dots$
- 8) $0 \div 23 = \dots\dots\dots$
- 9) $120 \div 20 = \dots\dots\dots$
- 10) $1,227 \div 12 = \dots\dots\dots \text{ R } \dots\dots\dots$

(3) Answer the following:

- 1) A school distributed 840 books among 15 classes equally, find number of books in each class?
.....
- 2) A teacher wants to distribute 510 prizes to 5 classes equally. How many prizes per each class?
.....
- 3) Find the quotient of division $11 \div 7$
.....
- 4) If 18 plums are packed each 3 in a bag, then how many bags will be there?
.....
- 5) Distribute 3,600 L.E. between 9 persons equally. How much every one take?
.....
- 6) If 165 passengers travel to Cairo by private cars, if the number of passengers in each car is 11 passengers, what is the number of cars to transport all the passengers?
.....
- 7) A charity wants to distribute 3,125 pounds into 25 persons equally. What's the share of each person?
.....

Summary of unit 5

➤ Multiplying and dividing by powers of 10:

• $\times 10, 100, 1000$	• $\times 0.1, 0.01, 0.001$	• $\div 10, 100, 1000$	• $\div 0.1, 0.01, 0.001$
Move the decimal point to the right	Move the decimal point to the left	Move the decimal point to the left	Move the decimal point to the right
EX: $1.562 \times 10 = 15.62$	EX: $345.3 \times 0.01 = 3.453$	EX: $45 \div 10 = 4.5$	EX: $3.5 \times 0.01 = 350$

➤ Decimals and metric system:

• Measuring length :	• Measuring mass (weight) :	• Measuring capacity :
Km _ _ m _ _ cm _ _ mm	Kg _ _ _ g	L _ _ _ ml
EX: $2.5 \text{ km} = 2,500 \text{ m}$ EX: $75.8 \text{ mm} = 7.58 \text{ cm}$	EX: $2.35 \text{ kg} = 2,350 \text{ g}$ EX: $23.7 \text{ g} = 0.0237 \text{ kg}$	EX: $3.52 \text{ L} = 3,520 \text{ ml}$ EX: $12,350 \text{ ml} = 12.35 \text{ L}$

➤ Multiplying decimals:

EX: $0.4 \times 3 = \dots\dots$	EX: $0.3 \times 0.6 = \dots\dots$	EX: $37.4 \times 6.2 = \dots\dots$
$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$ $\begin{array}{r} 0.4 \times 3 = 1.2 \\ \text{1 decimal} \quad \text{0 decimal} \quad \text{1 decimal} \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$ $\begin{array}{r} 0.3 \times 0.6 = 0.18 \\ \text{1 decimal} \quad \text{1 decimal} \quad \text{2 decimal} \end{array}$	$\begin{array}{r} 42 \\ 1 \\ \times 374 \\ \hline 748 \\ + 22440 \\ \hline 23188 \end{array}$ $\begin{array}{r} 37.4 \times 6.2 = 231.88 \\ \text{1 decimal} \quad \text{1 decimal} \quad \text{2 decimal} \end{array}$

➤ Dividing decimals:

EX: $51.84 \div 16 = \dots\dots$	EX: $58.5 \div 18 = \dots\dots$	EX: $8.856 \div 3.6 = \dots\dots$
$\begin{array}{r} 16 \times 1 = 16 \\ 16 \times 2 = 32 \\ 16 \times 3 = 48 \\ 16 \times 4 = 64 \\ 16 \times 5 = 80 \\ 16 \times 6 = 96 \end{array}$ $\begin{array}{r} 16 \overline{) 51.84} \\ \underline{48} \\ 038 \\ \underline{32} \\ 064 \\ \underline{64} \\ 00 \end{array}$	$\begin{array}{r} 18 \times 1 = 18 \\ 18 \times 2 = 36 \\ 18 \times 3 = 54 \\ 18 \times 4 = 72 \\ 18 \times 5 = 90 \\ 18 \times 6 = 108 \end{array}$ $\begin{array}{r} 18 \overline{) 58.50} \\ \underline{54} \\ 045 \\ \underline{36} \\ 90 \\ \underline{90} \\ 00 \end{array}$	$\begin{array}{r} 36 \times 1 = 36 \\ 36 \times 2 = 72 \\ 36 \times 3 = 108 \\ 36 \times 4 = 144 \\ 36 \times 5 = 180 \\ 36 \times 6 = 216 \end{array}$ $\begin{array}{r} 36 \overline{) 88.56} \\ \underline{72} \\ 165 \\ \underline{144} \\ 216 \\ \underline{216} \\ 000 \end{array}$

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(1) Choose the correct answer:

1) $85.3 \times 0.01 = \dots\dots\dots$

a. 853

b. 8.53

c. 0.853

d. 85.03

2) $2 \text{ thousandths} \times 4 = \dots\dots\dots$

a. 8

b. 0.8

c. 0.08

d. 0.008

3) $35.2 \times \frac{1}{10} = \dots\dots\dots$

a. 35.20

b. 35.02

c. 3.52

d. 30.52

4) $2.51 \times \dots\dots\dots = 0.251$

a. 0.1

b. 0.01

c. 0.001

d. 10

5) $0.1 \times 0.1 = \dots\dots\dots$

a. 0.03

b. 0.02

c. 0.01

d. 0.2

6) $3 \text{ hundredths} \times 3 = \dots\dots\dots$

a. 9 hundreds

b. 9 hundredths

c. 0.90

d. 9

7) $3 \text{ tenths} \times 4 \text{ tenths} = \dots\dots\dots$

a. 12 tenths

b. 12 hundredths

c. 12 thousandths

d. 12 ones

8) $3 \times 2 \text{ thousandths} = \dots\dots\dots \text{ thousandths}$

a. 5

b. 6

c. 32

d. 23

9) The product of $0.9 \times 5 = \dots\dots\dots$

a. 0.45

b. 4.5

c. 5.4

d. 45

10) $3.1 \times 1.1 = \dots\dots\dots$

a. 34.1

b. 341

c. 0.341

d. 3.41

11) Since $35 \times 47 = 1,645$, then $3.5 \times 0.47 = \dots\dots\dots$

a. 164.5

b. 16.45

c. 1.645

d. 1,645

12) From the area model, $m = \dots\dots\dots$

a. 20

b. 0.02

c. 0.2

d. 2

	4	0.3
2	8	0.6
0.5	m	0.15

- 13) 9.13×3.5 91.3×0.35
 a. > b. < c. = d. Otherwise
- 14) $0.7 \text{ m} =$ cm
 a. 7 b. 70 c. 700 d. 7,000
- 15) $17.6 \text{ kg} =$ g
 a. 0.176 b. 1.76 c. 1,760 d. 17,600
- 16) $3.5 \text{ L} - 1,500 \text{ ml} =$ L
 a. 2 b. 20 c. 200 d. 2,000
- 17) Aya ran a 5 kilometers race. How many meters did she run?
 a. 50 b. 500 c. 5,000 d. 0.005
- 18) There are milliliters in 18 liters
 a. 18 b. 180 c. 1,800 d. 18,000
- 19) $32.59 \div 0.1 =$
 a. 3.259 b. 32.59 c. 325.9 d. 3,259
- 20) $85.3 \div \frac{1}{100} =$
 a. 8,530 b. 8.53 c. 0.853 d. 85,300
- 21) $3,200 \text{ ml} =$ L
 a. 320 b. 32 c. 3.2 d. 0.23
- 22) There are 30,000 grams in kilograms
 a. 3 b. 3,000 c. 30 d. 300
- 23) $80 \div 0.08 =$
 a. 10 b. 100 c. 1,000 d. 8,000
- 24) $32.5 \div$ = 100
 a. 3.25 b. 0.0325 c. 0.325 d. 325
- 25) $462.3 \div 0.23$ $4,623 \div 2.3$
 a. > b. < c. = d. Otherwise
- 26) 30 days \approx weeks [to the nearest week]
 a. 3 b. 4 c. 5 d. 6

- 27) $35 \div 0.7 = \dots\dots$
 a. 50 b. 70 c. 0.7 d. 0.5
- 28) $90 \div 0.03 = \dots\dots$
 a. 3,000 b. 30 c. 300 d. 3
- 29) $1.5 \div 0.5 = \dots\dots$
 a. 5 b. 3 c. 0.5 d. 0.3
- 30) $25.25 \div 0.25 = \dots\dots$
 a. 11 b. 101 c. 110 d. 111
- 31) 700 g = $\dots\dots$ kg
 a. 0.7 b. 7 c. 0.07 d. 0.007
- 32) $8.43 \times 0.2 \approx \dots\dots$ [to the nearest hundredths]
 a. 1.686 b. 1.7 c. 1.69 d. 2
- 33) $7.18 \times 3.5 \dots\dots 71.8 \times 0.35$
 a. > b. < c. = d. Otherwise
- 34) $461.12 \div 10 = \dots\dots$
 a. 4.6112 b. 46.112 c. 461.12 d. 4611.2
- 35) $6.345 \div 0.01 = \dots\dots$
 a. 6,345 b. 0.06345 c. 634.5 d. 63,450
- 36) $2 \div 0.4 = \dots\dots$
 a. 2 b. 10 c. 5 d. 8
- 37) The divisor in the equation $1.8 \div 6 = 0.3$ is $\dots\dots$
 a. 0.3 b. 1.8 c. 6 d. 3
- 38) 735 cm = $\dots\dots$ m
 a. 73,500 b. 7.35 c. 73.5 d. 7,350
- 39) $100 \times 5.2 = \dots\dots$
 a. 5.20 b. 520 c. 0.52 d. 52

- 40) $0.3 \times 5 = \dots\dots$
 a. 0.35 b. 1.5 c. 15 d. 150
- 41) $7.14 \times 0.1 = \dots\dots$
 a. 0.714 b. 71.4 c. 7.140 d. 714
- 42) $3.6 \div 0.04 = \dots\dots$
 a. 0.9 b. 90 c. 0.09 d. 0.009
- 43) $\dots\dots \times 0.01 = 4.12$
 a. 412 b. 4,120 c. 41,200 d. 0.412
- 44) $0.6 \times 0.5 = \dots\dots$
 a. 30 b. 3 c. 0.3 d. 0.65
- 45) $4.1 \times 1.1 = \dots\dots$
 a. 45.1 b. 451 c. 0.451 d. 4.51
- 46) $3.25 \times 0.1 = \dots\dots$
 a. 325 b. 32.5 c. 3.25 d. 0.325
- 47) 95 milliliters = $\dots\dots$ cm
 a. 9.5 b. 0.95 c. 0.0095 d. 0.095
- 48) $4.25 \dots\dots 2.2 \div 0.1$
 a. = b. > c. < d. Otherwise
- 49) $0.35 \div 0.5 = \dots\dots$
 a. 7 b. 0.007 c. 0.07 d. 0.7
- 50) The quotient of $2.4 \div 0.4 = \dots\dots$
 a. 11 b. 6 c. 0.6 d. 1.6
- 51) $0.4 \times 0.6 = \dots\dots$
 a. 24 b. 2.4 c. 0.24 d. 0.024
- 52) $58.675 \times 0.10 = \dots\dots$
 a. 58.675 b. 5.8675 c. 586.75 d. 60

(2) Complete:

- 1) $0.2 \times 0.3 = \dots\dots$
- 2) $123 \times 0.01 = \dots\dots$
- 3) $4.2 \times 5.6 = \dots\dots$
- 4) $\dots\dots \times 0.01 = 5.324$
- 5) $25 \times 0.1 = \dots\dots$
- 6) $5.4 \times 0.12 = \dots\dots$
- 7) $513.2 \div 0.01 = \dots\dots$
- 8) $89.36 \div 100 = 89.36 \times \dots\dots$
- 9) $250 \text{ ml} = \dots\dots \text{ L}$
- 10) $36 \text{ cm} = \dots\dots \text{ mm}$
- 11) $2,000 \text{ g} = \dots\dots \text{ kg}$
- 12) The quotient of $6.66 \div 6 = \dots\dots$
- 13) The quotient of $84.24 \div 2 = \dots\dots$
- 14) $2.1 \div 0.7 = \dots\dots$

(3) Answer the following:

- 1) Ant walks 0.2 km on a day. How many meters does it walk
.....
- 2) Ali bought 9 cans of soda , if the price of one can is 6.5 pounds. How much money did Ali pay ?
.....
- 3) A rope that is 4.5 meters long is cut into 3 equal pieces. How long is each piece?
.....
- 4) Lf the price of a bottle of juice is 14.5 L.E. what is the price of 15 bottles of the same juice?
.....
- 5) Ali has 6.72 m of wire , if he decided to cut it into 16 pieces. What is the length of each piece?
.....
- 6) Find the result of: 2.14×2.7
.....
- 7) Ahmed bought 10 pens of the same type, if the price of one pen is 4.5 pounds. How much money Ahmed paid?
.....

Summary of unit 6

➤ Order of operations:

The order is:

- 1) ()
- 2) \times or \div
- 3) $+$ or $-$

Ex: $[(12 + 10) \times 0.2] \div 0.1$
 $= [22 \times 0.2] \div 0.1$
 $= 4.4 \div 0.1 = 44$

Ex: $0.5 + (4.7 - 4.1) \times 0.4$
 $= 0.5 + 0.6 \times 0.4$
 $= 0.5 + 0.24$
 $= 0.74$

➤ Writing expressions:

• Mathematical expressions keywords:

- ✓ **Addition (+):** add, plus, sum
- ✓ **Subtraction (-):** subtract, minus, difference, left, remainder, more than, decrease
- ✓ **Multiplication (×):** multiply, times, product
- ✓ **Division (÷):** divide, distribute, quotient

Ex:

Subtract 3.1 from 4.62. Then, multiply the result by 2

Expression: $(4.62 - 3.1) \times 2$

➤ Numerical pattern:

• Numerical pattern

- pattern **increases**: add (+) , multiply (×)
- pattern **decrease**: subtract (-) , divide (÷)
- writing rule: **+ 2** or **add 2** or **n + 2**

EX: 3, 6, 9, 12, 15, **Rule: + 3**

EX: 2, 4, 8, 16, **Rule: × 2**

EX: 45, 40, 35, 30, **Rule: - 5**

EX: 80, 40, 20, 10, **Rule: ÷ 2**

• Numerical pattern using table:

Input	Output
1	3
2	6
3	9
4	12
5	15

Rule: $n \times 3$

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(1) Choose the correct answer:

1) What is the first step in evaluating: $28.1 - 3.5 \times 0.2 + 29 - 4$?

a. $28.1 - 3.5$

b. 3.5×0.2

c. $0.2 + 29$

d. $29 - 4$

- 2) To find the value of expression: $43.1 \div 0.1 - 3.1 (2.2 + 3.8)$ perform the operations first
- a. Subtraction b. Multiplication c. Within parenthesis d. division
- 3) $2.3 \div 0.1 + 10 = \dots\dots\dots$
- a. 230 b. 10.23 c. 33 d. 0.33
- 4) $12 + 24 \div 4 + 8 = \dots\dots\dots$
- a. 28 b. 26 c. 22 d. 10
- 5) The value of this expression: $(7.5 \times 10) + 2.3$ is
- a. 77.3 b. 9.8 c. 19.8 d. 2.78
- 6) $25 \times 4 \div (6 - 5) = \dots\dots\dots$
- a. 100 b. 101 c. 0.01 d. 165
- 7) $(13.5 - 5.13) \div 0.1 + 16.3 = \dots\dots\dots$
- a. 10 b. 83.5 c. 30 d. 100
- 8) Which expression matches the clue " add 30 to 25 and divide the result by 0.5 "?
- a. $30 + 25 \div 0.5$ b. $0.5 \times (30 + 25)$ c. $(30 + 25) \div 0.5$ d. $30 \div 0.5 + 25$
- 9) Subtract 2.2 from 6.42 and multiply the result by 3 , then the expression is
- a. $2.2 \times 2 - 6.42$ b. $3 \times 6.42 - 2.2$ c. $6.42 - 2.2 \times 2$ d. $(6.42 - 2.2) \times 3$
- 10) 3, 5, 7, 9, 11, In the same pattern
- a. 21 b. 15 c. 13 d. 12
- 11) 2, 5, 8, 11, in the same pattern
- a. 12 b. 14 c. 16 d. 17
- 12) The missing value in the pattern 23, 27,, 35 ,is
- a. 29 b. 31 c. 30 d. 34
- 13) The pattern rule of: 35, 31, 27, 23, is
- a. $n - 2$ b. $n + 4$ c. $n \times 4$ d. $n - 4$

- 14) The rule of the pattern: 3, 7, 11, 15, is
- a. $n - 4$ b. $n + 4$ c. $n \times 4$ d. $n \div 4$
- 15) If the input is 45, and the rule " $n \div 5$ ", then the outputs is
- a. 6 b. 40 c. 9 d. 50
- 16) 16, 8, 4, [in the same pattern]
- a. 4 b. 1 c. 2 d. 8
- 17) The first operation to solve: $983 - 16 \div 8 + 11 \times 10$
- a. add b. subtraction c. multiply d. divided
- 18) $5.4 \times 0.1 - 0.32 = \dots\dots\dots$
- a. 0.68 b. 53.68 c. 0.22 d. 54.2
- 19) $15 \div 5 + 7 = \dots\dots\dots$
- a. 5 b. 7 c. 3 d. 10
- 20) $6 + 2.4 \times 10 = \dots\dots\dots$
- a. 84 b. 0.84 c. 20 d. 30
- 21) If the starting number is 5, and the pattern rule is: $n + 7$, then the pattern is
- a. 5, 12, 17, 22, b. 5, 12, 19, 26, c. 5, 7, 9, 11, d. 7, 12, 17, 22,
- 22) From the following table: the rule of the pattern is
- a. $n \times 2$ b. $n + 2$ c. $n \div 2$ d. $n - 2$
- | | | | | |
|--------|---|----|----|----|
| Input | 3 | 6 | 9 | 12 |
| Output | 6 | 12 | 18 | 24 |
- 23) If the input is 6 and the output is 2, then the rule is
- a. $n + 3$ b. $n \times 2$ c. $n \div 2$ d. $n \times 3$

(2) Complete:

- 1) $2 + 7 \times 5 - 6 = \dots\dots\dots$
- 2) $55 \div 3 + 2 = \dots\dots\dots$
- 3) $5.5 \div 5 \times 10 - 10 = \dots\dots\dots$

- 4) $3.52 \times 10 + 283 \div 10 = \dots\dots\dots$
- 5) $2.4 + 3.15 \times 10 - 7.6 = \dots\dots\dots$
- 6) $3.3 \div 3 \times 10 = \dots\dots\dots$
- 7) 10, 30, 50, $\dots\dots\dots$, $\dots\dots\dots$ [in the same pattern]
- 8) 1.3, 1.7, 2.1, 2.5, $\dots\dots\dots$, 3.3 [in the same pattern]
- 9) 5, 10, 20, 40, $\dots\dots\dots$ [in the same pattern]
- 10) 23, 27, 31, 35, $\dots\dots\dots$ [in the same pattern]
- 11) 1.5, 3, 4.5, 6, $\dots\dots\dots$
- 12) 0, 3, 6, 9, 12, $\dots\dots\dots$
- 13) 85, 80, 75, $\dots\dots\dots$, the rule is $\dots\dots\dots$
- 14) In the pattern 5, 10, 15, 20, $\dots\dots\dots$, the rule is $\dots\dots\dots$
- 15) In the pattern 3, 5, 7, 9, $\dots\dots\dots$, the rule is $\dots\dots\dots$
- 16) From the following table:
The rule of the pattern is $\dots\dots\dots$
- | | | | | |
|--------|----|----|----|----|
| Input | 5 | 6 | 7 | 8 |
| Output | 20 | 24 | 28 | 32 |
- 17) From the following table:
The rule of the pattern is $\dots\dots\dots$
- | | | | |
|--------|----|----|----|
| Input | 28 | 35 | 42 |
| Output | 4 | 7 | 6 |

(3) Answer the following:

- 1) Use order of mathematical operations to evaluate : $4.2 + 24 \div 4 + 8$
- $\dots\dots\dots$

- 2) Write the expression matches the clue then evaluate it: Subtract 3.1 from 4.21 then multiply the result by 0.1
- $\dots\dots\dots$

ELIAS

Ministry of education

Math consultant office

(Model exam + model answer)

First : Choose the correct answer :

- (1) The value of the digit 4 in the number 3.514 is
- (a) 40,000 (b) 400 (c) 0.4 (d) 0.004
- (2) The value of variable x in the equation $x + 3.5 = 8$ is
- (a) 3.5 (b) 5.4 (c) 4.5 (d) 5.5
- (3) All the following numbers are prime numbers except
- (a) 2 (b) 5 (c) 7 (d) 9
- (4) The number..... is a common factor for all numbers
- (a) 0 (b) 1 (c) 2 (d) 3
- (5) $18.58 \approx$ (to the nearest Whole number)
- (a) 59 (b) 19 (c) 18 (d) 18.6
- (6) $20 + 0.07 + 0.008 =$
- (a) 20.078 (b) 20.78 (c) 20.708 (d) 20.807
- (7) $85.3 \times \frac{1}{10} =$
- (a) 853 (b) 8.53 (c) 0.853 (d) 85.03

Second : Complete each of the following :

- (1) 5 thousandth + 73 hundredth = Thousandth
- (2) The number whose all prime factor are 3 , 2 and 2 is.....
- (3) 1000 gm. =Kg.
- (4) The (G.C.F) of 8 , 12 is
- (5) The product of $13.5 \times 2.2 = \dots\dots\dots$
- (6) The sum of $3.127 + 8.65 = \dots\dots\dots$
- (7) The quotient of $6.66 \div 6 = \dots\dots\dots$
- (8) The number $3 + 0.2 + \frac{5}{100} + \frac{9}{1000}$ in standard form =

Third: Choose the correct answer

(1) $(4 \times 85) + (2 \times 85) = \dots \times 85$

- (a) 24 (b) 42 (c) 8 (d) 6

(2) Five ones , forty seven thousandth =

- (a) 57.40 (b) 5.740 (c) 5.47 (d) 5.047

(3) The number is one of the multiples of the digit 6

- (a) 16 (b) 26 (c) 24 (d) 106

(4) The prime factors of the number 12 are

- (a) 2 , 2 , 3 (b) 2 , 3 , 3 (c) 6 , 2 (d) 4 , 3

(5) $\frac{357}{1000} = \dots$

- (a) 3.75 (b) 0.357 (c) 357 (d) 3.57

(6) The value of the variable x in the equation $x - 2.5 = 4$ is

- (a) 1.5 (b) 6.5 (c) 5.6 (d) 5.1

(7) The composite number in the following numbers is

- (a) 7 (b) 13 (c) 15 (d) 5

Fourth :Answer the following:

Ahmed bought 9 pens of the same type ,If the price of one pen is 4.5 pound.
How much money will Ahmed pay?

.....
.....
.....
.....

Find (L.C.M) for the two numbers (6 , 10) .

.....
.....
.....
.....

Decompose the number 80.507 using the expanded form

.....
.....
.....
.....

A teacher wants to distribute 280 prizes to 7 classes equally. How many prizes
per each class?

.....
.....
.....
.....

Model Answer for the Model Exam grade 5th primary First Term 2022/2023

Question 1: Choose the correct answer:

7 items, one mark for each item

- (1) d) 0.004
- (2) c) 4.5
- (3) d) 9
- (4) b) 1
- (5) b) 19
- (6) a) 20.078
- (7) b) 8.53

Question 2: Complete each of the following:

8 items, one mark for each item

- (1) 735 thousandth.
- (2) 12
- (3) 1kg.
- (4) 4
- (5) 29.7
- (6) 11.777
- (7) 1.11
- (8) 3.259

Question 3: Choose the correct answer:

7 items, one mark for each item

- (1) d) 6
- (2) d) 5.047
- (3) c) 24
- (4) a) 2 , 2 , 3
- (5) b) 0.357
- (6) b) 6.5
- (7) c) 15

Question 4:

4 items, two marks for each item

- (1) The total amount that Ahmed will pay = $9 \times 4.5 = 40.5$ L.E
(1 mark) (1 mark)
- (2) $10 = 2 \times 5$, $6 = 2 \times 3$ (1 mark)
L.C.M = $2 \times 3 \times 5 = 30$ (1 mark)
- (3) $0.007 + 0.5 + 80 = 80.507$ (2 marks)
- (4) Number of prizes of each class = $280 \div 7 = 40$
(1 mark) (1 mark)

Good luck

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Directorates exams

1. Choose the correct answer:

- 1) $36 \div \dots = 9$
a. 4 b. 5 c. 3 d. 6
- 2) The product of 193×19 is near close to
a. 4,000 b. 40 c. 400 d. 40,000
- 3) There are L in 41,000 ml
a. 410 b. 41 c. 410,000 d. 4
- 4) 327×53 199×43
a. > b. < c. = d. \leq
- 5) In $56.4 + X = 96$, the variable is
a. 56.4 b. X c. 96 d. 6.5
- 6) If $3.462 - x = 1.451$, then $x =$
a. 4.913 b. 2.011 c. 4.914 d. 2.001
- 7) In the equation $24 \div 4 = 6$, the remainder is
a. 1 b. 2 c. 0 d. 4

2. Complete the following:

- 1) $\times 100 = 86.2$
- 2) 800 g = kg
- 3) In the 342.18, the digit 8 is in the place and its value is
- 4) $0.9986 \approx$ [to the nearest thousandths]
- 5) If $y - 4.413 = 6.150$, then $y =$
- 6) The common multiple for all numbers is
- 7) $65 \times$ = 6,500
- 8) Sixteen and seven tenths = + +

3. Choose the correct answer:

1) 7 tenths 0.699

a. >

b. <

c. =

d. ≤

2) 17.400 17.4

a. >

b. <

c. =

d. ≤

3) Which of the following is an equation?

a. $50 + b$

b. $50 + b = 75$

c. $3.5 + k$

d. Mai saved 30 L.E per day

4) $0.076 = \text{.....} \times 7.6$

a. 10

b. 0.1

c. 0.01

d. 0.001

5) The number four and forty-one thousandths in standard form is

a. 4.41

b. 4.041

c. 410.4

d. 4.401

6) The next number in the pattern: 5, 8, 11, 14, ... is

a. 15

b. 16

c. 17

d. 11

7) $45.9 - 20.76$ estimate to

a. 18

b. 25

c. 31

d. 35

4. Answer the following questions:

1) Find the G.C.F and L.C.M of 12 and 16

.....

2) Solve the problem using an area model $42 \times 51 = \text{.....}$

.....

3) Ali walks 6 kilometers each day. If he walked 187 days, how many kilometers would he walk?

.....

4) Hossam has 28 cans. He wants to divide it equally on 7 tables. How many cans will be on each table?

.....

انتهت الاسئلة

1. Choose the correct answer:

- 1) $36.124 \times 100 = \dots\dots\dots$
a. 36.124 b. 361.24 c. 3,612.4 d. 36,124
- 2) What is the standard form for: $60 + 3 + 0.5 + 0.04$?
a. 63.54 b. 63.054 c. 63.504 d. 6.354
- 3) $\dots\dots\dots$ is a common multiple of 9 and 6
a. 12 b. 18 c. 24 d. 27
- 4) The value of the digit 4 in the number 98.764 is $\dots\dots\dots$
a. $\frac{4}{10}$ b. $\frac{4}{1,000}$ c. 0.04 d. 4,000
- 5) $3.6 + 5.411 = \dots\dots\dots$
a. 5.417 b. 8.1011 c. 8.417 d. 9.011
- 6) If $35 \times 47 = 1,645$, then $3.5 \times 0.47 = \dots\dots\dots$
a. 164.5 b. 16.45 c. 1.645 d. 1,645
- 7) The rule of the pattern 2, 5, 8, $\dots\dots$ is
a. $n + 1$ b. $n + 2$ c. $n + 3$ d. $n + 4$

2. Complete the following:

- 1) $30 \div 4 = 7 \text{ R } \dots\dots\dots$
- 2) If $k + 15.36 = 80.12$, then $k = \dots\dots\dots$
- 3) The common multiple of all numbers is $\dots\dots\dots$
- 4) 15.4 grams = $\dots\dots\dots$ kg
- 5) $36.365 \approx 36.4$ [to the nearest $\dots\dots\dots$]
- 6) Evaluate the expression: $1.6 \div 0.1 - 50 \times 0.1 = \dots\dots\dots$
- 7) $\dots\dots\dots$ is the only even prime number
- 8) The next number in the pattern 5, 6.5, 8, 9.5, \dots is $\dots\dots\dots$

3. Choose the correct answer:

- 1) $17 \times 51 = \dots\dots\dots$
a. 687 b. 867 c. 785 d. 766
- 2) $5.2 \div 100 = \dots\dots\dots$
a. 5.7 b. 0.57 c. 0.057 d. 570
- 3) The prime factors of 12 are
a. 2,2 and 3 b. 1, 2 and 3 c. 2, 3 and 5 d. 2, 3 and 4
- 4) The equation representing a number x if added to 1.7 the sum is 2.8 written as
a. $X + 1.7 = 2.8$ b. $1.7 + 2.8 = x$ c. $x + 2.8 = 1.7$ d. $1.7 \times 2.8 = x$
- 5) 2.5 liters = Milliliters
a. 0.25 b. 25 c. 250 d. 2,500
- 6) $3.72 - 0.05 \dots\dots\dots 2.67$
a. > b. < c. = d. Otherwise
- 7) $80 + 0.08 = \dots\dots\dots$
a. 10 b. 100 c. 1,000 d. 8,000

4. Answer the following questions:

- 1) Find the greatest common factor G.C.F of 12 and 18
.....
- 2) Hany has 3.45 meters of wire that is cutting into 5 equal pieces. Find the length of each piece of wire
.....
- 3) Mona had 95.5 L.E. She spent 33.75 L.E. Find the remainder with her
.....
- 4) Order from least to greatest : 0.65 km ,590 m ,0.8 km ,705 m
.....

انتهت الاسئلة

1. Choose the correct answer:

1) $4.7 \times 1,000 = \dots\dots\dots$

a. 47

b. 470

c. 4,700

d.

2) The following model represents

	60	5
3	180	15

a. $63 \div 5$

b. $65 \div 3$

c. $165 \div 3$

d. 65×3

3) $(78 \times 72) = (70 \times 78) + (\dots \times 78)$

a. 70

b. 2

c. 8

d. 7

4) The divisor in the division $54 \div 9 = 6$ is

a. 54

b. 9

c. 6

d. 0

5) The common factor of all numbers is

a. 2

b. 3

c. 0

d. 1

6) $2.1 \times 0.1 = \dots\dots\dots$

a. 0.21

b. 10.5

c. 21

d. 2,100

7) $3.2 \div 4 = \dots\dots\dots$

a. 0.4

b. 0.6

c. 1.4

d. 0.8

2. Complete the following:

1) $60 + 4 + 0.05 + 0.009 = \dots\dots\dots$ [in standard form]

2) is the only even prime number

3) 3.17 read as

4) 7.355 km = M

5) The result of $13.51 + 1.9 = \dots\dots\dots$

6) The L.C.M of 3 and 6 is

7) 52.826 in expanded form is $52 + 0.8 + \dots\dots\dots + \dots\dots\dots$

8) 8.639 rounded to the nearest hundredths is

3. Choose the correct answer:

- 1) $8 + 16 \div 2 - 16 = \dots\dots$
a. 24 b. 0 c. 32 d. 12
- 2) If $3.23 + p = 11.25$, then $p = \dots\dots\dots$
a. 8.02 b. 8 c. 14 – 48 d. 7.02
- 3) The value of 7 in the number 63.783 is $\dots\dots\dots$
a. 0.7 b. 7 c. 0.07 d. 0.007
- 4) 35 hundredths – 2 tenths = $\dots\dots\dots$ hundredths
a. 15 b. 55 c. 12 d. 32
- 5) $7.672 \approx 7.7$ is rounded to the nearest $\dots\dots\dots$
a. Hundreds b. Tenths c. Hundredths d. thousandths
- 6) 6.3 is 100 times as $\dots\dots\dots$
a. 0.63 b. 63 c. 0.063 d. 630
- 7) The place value of the underlined digit 0.734 is $\dots\dots\dots$
a. Tenths b. Zero c. Hundredths d. Ones

4. Answer the following questions:

- 1) Find G.C.F of 9 and 12
.....
- 2) a. $52.236 - 2.35 = \dots\dots\dots$
b. $375 \div 15 = \dots\dots\dots$
- 3) $15 \times 23 = \dots\dots\dots$
- 4) Reem bought a piece of cloth with a Length of 5 meters. If the price of one meter of cloth is 3.8 1.E. , How much is the total cost?
.....

انتهت الاسئلة

1. Choose the correct answer:

- 1) The common factor of all numbers is
a. 0 b. 2 c. 1 d. 10
- 2) 5 km = m
a. 50 b. 5,000 c. 500 d. 5
- 3) $3.6 + 5.411 = \dots\dots\dots$
a. 5.447 b. 8.1011 c. 8.417 d. 9.011
- 4) If $125 \times 5 = 625$, then $626 \div 5 = 125 \text{ R } \dots\dots\dots$
a. 3 b. 1 c. 5 d. 2
- 5) $3.94 \times 10 = \dots\dots\dots$
a. 3.94 b. 39.4 c. 0.394 d. 394
- 6) The L.C.M of 6 and 10 is
a. 60 b. 30 c. 15 d. 45
- 7) The divisor in the equation $36 \div 4 = 9$ is
a. 36 b. 9 c. 4 d. zero

2. Complete the following:

- 1) $1,000 \times \dots\dots\dots = 60,000$
- 2) is the only even prime number
- 3) 140 cm = meters
- 4) The value of digit 3 in the number 4.315 is
- 5) In the pattern: 3, 5, 7, 9, 11, ... , the rule is
- 6) $3 + 3 \text{ tenths} + 3 \text{ hundredths} = \dots\dots\dots$
- 7) $36.479 \approx 36.5$ [to the nearest]
- 8) The smallest odd prime number is

3. Choose the correct answer:

- 1) $316 \div 10 = \dots\dots\dots$
a. 31.6 b. 3.16 c. 0.316 d. 3,160
- 2) What is the ones digit of the product of 456×24 will be without solving the whole problem?
a. 3 b. 4 c. 5 d. 6
- 3) 0.9 is closer to
a. 0.5 b. 0.6 c. 1 d. 0.25
- 4) There are 5,000 milliliters in liters
a. 5 b. 50 c. 5,000,000 d. 500
- 5) 4 thousandths + 3 thousandths = thousandths
a. 70 b. 7 c. 43 d. 7.7
- 6) The common multiple of all numbers is
a. 1 b. 2 c. 0 d. 3
- 7) $2,323 \div 23 = \dots\dots\dots$
a. 11 b. 11.1 c. 1.1 d. 101

4. Answer the following questions:

- 1) Farida saved 17.25 pounds and her brother Murad saved 8.5 pounds.
Find the sum they saved
.....
- 2) Find G.C.F and L.C.M of 12 and 18
.....
- 3) a. $T - 2.45 = 0.26$
.....
b. $2.56 + x = 3.8$
.....
- 4) Find the result (show steps):
a. $1,477 \div 12$
.....
b. 75×23
.....

انتهت الاسئلة

1. Choose the correct answer:

- 1) Seven ones, thirty-eight thousandths =
a. 7.38 b. 70.38 c. 7.038 d. 38.7
- 2) The number Is one of multiples of the number 8
a. 20 b. 28 c. 32 d. 45
- 3) The prime factors of the number 18 are
a. 1 and 18 b. 2,3 and 3 c. 3 and 6 d. 2 and 9
- 4) The value of the variable k in the equation: $K - 2.5 = 4$ is
a. 3.5 b. 2.5 c. 4 d. 6.5
- 5) $57.3 \times 0.1 = \dots\dots\dots$
a. 0.573 b. 5.73 c. 573 d. 5,730
- 6) $36 \div 9 + 0.6 = \dots\dots\dots$
a. 4.6 b. 6.4 c. 10 d. 46
- 7) The composite number in the following numbers is
a. 3 b. 7 c. 5 d. 15

2. Complete the following:

- 1) 785 cm = m
- 2) L.C.M for two numbers 6 and 9 is
- 3) The product of $12.4 \times 0.3 = \dots\dots\dots$
- 4) 8 thousandths + 65 hundredths = thousandths
- 5) The quotient of $8.46 \div 0.2 = \dots\dots\dots$
- 6) G.C.F for two numbers 14 and 35 is
- 7) The number 68.769 approximating to the nearest hundredths is
- 8) 6, 12, 18 , [in the same pattern]

3. Choose the correct answer:

- 1) The number Is a common factor for all numbers
a. 0 b. 1 c. 2 d. 3
- 2) $327.54 \approx$ [to the nearest whole number]
a. 327 b. 327.5 c. 328 d. 330
- 3) The value of the digit 9 in the number 7.829 is
a. 9 b. 0.9 c. 0.09 d. 0.009
- 4) $93.4 \times 100 =$
a. 0.934 b. 934 c. 9,340 d. 93,400
- 5) 5.6 liters = ml
a. 0.056 b. 56 c. 560 d. 5,600
- 6) $45.5 \div 5 =$
a. 0.91 b. 9.1 c. 91 d. 910
- 7) The digit in the tenths place in the number 83.25 is
a. 8 b. 3 c. 2 d. 5

4. Answer the following questions:

- 1) In the opposite model, find the value of variable x
.....

	19.6
x	3.2
- 2) Rasha bought 3.75 kg of flour, she bought another 2.25 kg of it.
How much flour did she have?
.....
- 3) Ahmed runs a distance of 2.35 km per day, What is the distance that he run in 10 days ?
.....
- 4) Samy works as a plumber. He has 16.4 meters of copper pipe that he needs to cut into 4 equal sized smaller pipes. How long will each pipe be?
.....

انتهت الاسئلة

ELIAS

MATH

Final revision 2023 / 2024

Grade 5

Mr. Ahmed El-Asi – Port said

جميع الاسئلة بالملحق وردت بامتحانات الادارات للمحافظات

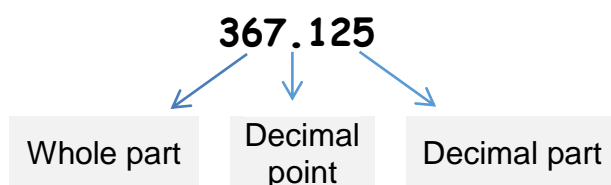
ELIAS

General revision for units

جميع الاسئلة بالملحق وردت بامتحانات الادارات للمحافظات

Summary of unit 1

> Decimal number:



> Place value and value of decimal number:

367.125							
Place value	Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
Value	300	60	7	.	0.1	0.02	0.005

> Reading decimal number:

135.46

Reading as: one hundred thirty-five and forty-six hundredths

3.075

Reading as: two and seventy five thousandths

> Converting decimal number:

✓ Convert from **fraction to decimal:**

• $4 \frac{356}{1,000} = \underline{4.356}$ • $\frac{7}{100} = \underline{0.07}$

✓ Convert from **unit to standard:**

- 4 tenths, 5 hundredths, 1 thousandths = **0.451**
- 3 hundredths, 6 thousandths = **0.036**

> Multiplying and dividing by 10 and 100:

✓ **Multiplying by 10**

EX: $3.5 \times 10 = 35$

- The decimal **point** moves one place to **right**
- Each **digit** moves one place to **left**
- The **value** of each digit **increases** 10 times.

✓ **Dividing by 10**

EX: $45.26 \div 10 = 4.526$

- The decimal **point** moves one place to **left**
- Each **digit** moves one place to **right**
- The **value** of each digit **decreases** 10 times.

> Forms of decimal number:

✓ Standard form:	42.365
✓ Decomposing form:	1st way (Expanded): $40 + 2 + 0.3 + 0.06 + 0.005$ 2nd way: $42 + 0.3 + 0.06 + 0.005$ 3rd way: $42 + 0.365$
✓ Word form:	Forty-two and three hundred sixty-five thousandths
✓ Unit form:	4 tens, 2 ones, 3 tenths, 6 hundredths, 5 thousandths

➤ Comparing decimals:

Ex: $2.35 < 4.18$

$0.253 < 0.721$

$2.490 > 2.365$

➤ Rounding decimals:

✓ To the nearest **whole** (ones):

EX: $64.72 \approx 65$

✓ To the nearest **tenth** (one decimal place):

EX: $0.628 \approx 0.6$

✓ To the nearest **hundredth** (two decimal places):

EX: $23.495 \approx 23.50$

➤ Adding and subtracting decimals:

✓ **Adding** decimals:

EX: $36.254 + 1.48 = \dots\dots\dots$

$$\begin{array}{r} 36.254 \\ + 1.480 \\ \hline 37.734 \end{array}$$

✓ **Subtracting** decimals:

EX: $5.46 - 2.347 = \dots\dots\dots$

$$\begin{array}{r} 5.460 \\ - 2.347 \\ \hline 3.113 \end{array}$$

➤ Estimating adding or subtracting decimals:

✓ **Rounding** estimation:

- Round each number firstly, then add or subtract

EX : estimate by rounding to the nearest whole:
 $3.27 + 0.54 = 3 + 1 = 4$

✓ **Front-end** estimation:

- Write the first digit from left, then replace the rest digits by zeroes.

EX : estimate by using front end estimation:
 $23.24 + 0.4 = 20.00 + 0.0 = 20$

✓ **Benchmark** estimation:

- Delete decimal part and Replace the tenths place by 0, 5 or 10

EX : estimate by using benchmark:
 $1.6 + 2.9 = 1.5 + 3.0 = 4.5$

➤ Decimal story problems:

- Addition keywords (+): [sum - together - all - total]
- Subtraction keywords (-): [difference - more than - remain - rest - left]

اسئلة من امتحانات المحافظات

(1) Choose the correct answer:

1) The place value of the digit 3 in the number 15.32 is

- a. Ones b. Hundreds c. Tenths d. Thousandths

2) The value of the digit 4 in the number 3.514 is

- a. 40,000 b. 400 c. 0.4 d. 0.004

3) Sixty-four and sixty-four thousandths =

a. 46.046

b. 64.064

c. 64.64

d. 46.46

4) $\frac{469}{1,000} = \dots\dots\dots$

a. 4.96

b. 0.469

c. 459

d. 4.69

5) The decimal fraction 0.053 reads

a. Fifty-three hundredths

b. Fifty-three hundreds

c. Thirty-five hundredths

d. Fifty-three thousandths

6) $30 + 0.04 + 0.005 = \dots\dots\dots$

a. 30.045

b. 30.45

c. 30.405

d. 30.504

7) $489.51 = 489 + \dots\dots\dots$

a. 0.51

b. 51

c. 1.51

d. 5.1

8) 6 ones + 5 tenths + 7 thousandths =

a. 0.756

b. 6.507

c. 657

d. 6,507

9) 8 hundredths equivalent to thousandths

a. 80

b. 8

c. 800

d. 0.008

10) $3.7 \times 100 = \dots\dots\dots$

a. 37

b. 370

c. 3,700

d. 0.37

11) $65.2 \div 10 = \dots\dots\dots$

a. 0.652

b. 65.2

c. 6.52

d. 652

12) $2.13 \times \dots\dots\dots = 2,130$

a. 10

b. 100

c. 1,000

d. 10,000

13) $23.4 \div \dots\dots\dots = 2.34$

a. 10

b. 100

c. 1,000

d. 10,000

14) 36.5 35.6

a. >

b. <

c. =

d. Otherwise

15) 25.12 25.056

a. >

b. <

c. =

d. Otherwise

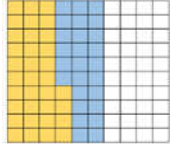
16) $0.004 \dots\dots\dots \frac{4}{1,000}$

a. >

b. <

c. =

d. Otherwise

- 17) $5.36 > \dots\dots\dots$
 a. 5.37 b. 5.362 c. 5.366 d. 3.561
- 18) The smallest decimal number from the following is
 a. 8.8 b. 8.90 c. 8.1 d. 7.5
- 19) Which digit can be placed in the square to make the mathematical expression is correct?
 $348.389 < 34 \square .13$
 a. 5 b. 6 c. 8 d. 9
- 20) $18.58 \approx \dots\dots\dots$ [to the nearest whole number]
 a. 59 b. 19 c. 18 d. 18.6
- 21) $1.450 \approx \dots\dots\dots$ [to the nearest tenth]
 a. 10 b. 1 c. 1.5 d. 15
- 22) $3.649 \approx \dots\dots\dots$ [to the nearest 2 decimal places]
 a. 3.74 b. 3.65 c. 3.54 d. 4.6
- 23) The rounding of the decimal number 9.325 to the nearest is 9.33
 a. Tenth b. Hundredth c. Thousandth d. Whole
- 24) $4.14 + 3.05 = \dots\dots\dots$
 a. 7.58 b. 1.19 c. 7.19 d. 740
- 25) $45.9 - 13.33 = \dots\dots\dots$
 a. 34.7 b. 35.1 c. 20.1 d. 32.57
- 26) Which of the following expressions represent the opposite model?
 a. $0.32 + 0.2$ b. $0.34 + 0.26$
 c. $0.27 + 0.33$ d. $0.24 + 0.36$
- 
- 27) 8 hundredths – 5 hundredths =
 a. 3 b. 300 c. 0.3 d. 0.03
- 28) 5 tenths – 35 hundredths = hundredths
 a. 15 b. 35 c. 30 d. 5
- 29) The estimate of the sum of $35.762 + 63.014$ is
 a. 99 b. 80 c. 98.76 d. 110

- 30) The estimation of $0.5 + 0.7$ by rounding to the nearest whole is
a. 1 b. 2 c. 1.2 d. 0.3
- 31) The estimation of $0.91 + 2.52$ by using benchmark strategy is
a. 2 b. 3 c. 2.5 d. 3.5
- 32) The estimation of $37.42 - 11.42$ by using front-end strategy is
a. 20 b. 26 c. 30 d. 36
- 33) = $90 + 6 + 0.07$
a. 96.7 b. 96.07 c. 9.67 d. 9.067
- 34) $0.2 + \dots = 7.2$
a. 7 b. 0.7 c. 70 d. 0.007
- 35) If multiply decimal number by 10, then decimal point will move to
a. Left b. Right c. Not move d. Other
- 36) $0.12 \times 10 \dots \dots 2.1 \times 10$
a. > b. < c. = d. Otherwise
- 37) $\times 5 = 5,000$
a. 100 b. 1,000 c. 10,000 d. 100,000
- 38) The benchmark of 0.85 is
a. 0.5 b. 1 c. 0 d. 85
- 39) $0.05 + 0.05 = \dots$
a. 0.55 b. 0.1 c. 10 d. 5.5
- 40) 7 tenths + 3 tenths =
a. 1 b. 10 c. 100 d. 1,000

(2) Complete:

- 1) The value of the digit 6 in the number 36.059 is 6
- 2) The place value of the digit 7 in the number 91.374 is hundredths
- 3) The digit in the hundredth place in the number 3.456 is 5
- 4) 6 tenths = 60 hundredths
- 5) The number of tenths in the decimal fraction 0.76 equal 7 tenths

- 6) Thirty-six and twenty five hundredths in digits is 36.25
- 7) The number $4 + 0.2 + \frac{4}{100} + \frac{9}{1,000}$ in standard form is 4.249
- 8) 3.06 in word form is three and six hundredths
- 9) $3 + 3 \text{ tenths} + 3 \text{ hundredths} = \underline{3.33}$
- 10) $40 + 8 + 0.5 + 0.06 = \underline{48.56}$
- 11) $78.65 \times 10 = \underline{786.5}$
- 12) $73.68 \div \underline{10} = 7.368$
- 13) The rounding of the number 35.546 to the nearest hundredth is 35.55
- 14) $5.238 + 3.65 = \underline{8.888}$
- 15) $8.659 - 4.32 = \underline{4.339}$
- 16) The estimation of $26.32 + 39.9$ by rounding to the nearest whole is 66
- 17) 5 thousandths + 73 hundredths = 735 thousandths
- 18) $1,000 \times \underline{60} = 60,000$
-

(3) Answer the following:

- 1) Decompose the number 80.507 using the expanded form
 $80 + 0.5 + 0.007$
- 2) Ola saved 17.25 pounds, and her brother saved 8.5 pounds. Find the sum they saved
The sum = $17.25 + 8.5 = 25.75$ pounds
- 3) Ahmed catches a fish its length is 22.5 cm and Assem catches a fish its length is 13.2 cm. find the difference between the lengths of the two fish.
The difference = $22.5 - 13.2 = 9.3$ cm
- 4) Two gold bars , if the weight of the first is 3.39 kg and the weight of the second is 6.08 kg, Calculate the weight of the two gold bars.
The weight = $3.39 + 6.08 = 9.47$ kg
- 5) Which is greater 3,508.42 or 358.32?
The greater is 3,508.42
- 6) Order from least to the greatest: 0.096 , 2.56 , 1.26 , 0.27
The order is: 0.096 , 0.27 , 1.26 , 2.56
- 7) Order from greatest to smallest: 80.21 , 8.102 , 80.012 , 80.09
The order is: 80.21 , 80.09 , 80.012 , 8.102

Summary of unit 2

➤ Equation and expression:

✓ Mathematical expression:	Doesn't contain equal sign	EX: • $m + 3.5$ • $3.2 + 5.61$
✓ Equation:	contains the equal sign " $=$ "	EX: • $x + 3 = 5$

➤ Equation and variable:

Equation:	$3.5 - x = 2.4$					
Variable:	The symbol or letter in the equation EX: x, y, z, m, n,					
Solving equation:	find the value of the variable in the equation					
EX: $m + 2.31 = 5.64$ Sol: <table border="1"><tr><td></td><td>5.67</td></tr><tr><td>m</td><td>2.31</td></tr></table> $m = 5.67 - 2.31$ $m = 3.36$		5.67	m	2.31	EX: $x - 4.35 = 1.24$ Sol: $x = 4.35 + 1.24$ $x = 5.59$	EX: $5.2 + \dots = 8.4$ Sol: $8.4 - 5.2 = 3.2$
	5.67					
m	2.31					

➤ Writing equation:

- **Addition** key words(+): plus, add, sum, increase
- **Subtraction** keywords (-): subtract, difference, decrease, remain, rest, more than

EX: If we add a number to 1.6 the sum is 4.8

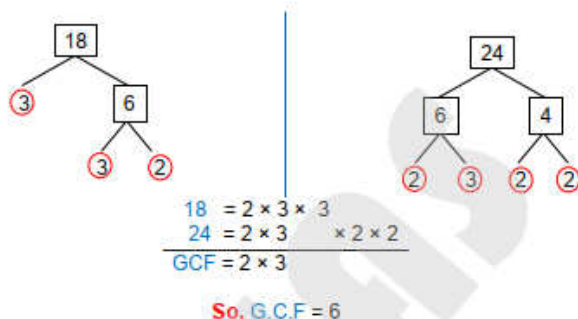
Sol: $m + 1.6 = 4.8$

➤ Factors and multiples:

• Find G.C.F

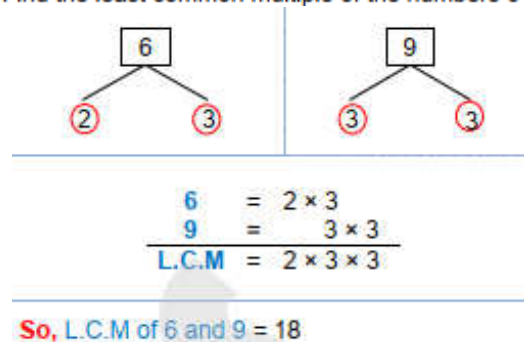
EX: Find the greatest common factor of the numbers 18 and 24

Sol:



• Find L.C.M

EX: Find the least common multiple of the numbers 6 and 9



- The **prime** number has only **two factors** (1 and it self)

EX:
$$\begin{array}{r|l} 5 & \\ 1 & 5 \end{array}$$

- The **composite** number has **more than two** factors

EX:
$$\begin{array}{r|l} 8 & \\ 1 & 8 \\ 2 & 4 \end{array}$$

- To find a number from its prime factors , **multiply their prime factors**

EX: the number that its prime factors 2, 2, 3 is **12**

- The **prime** numbers: **2, 3, 5, 7, 11, 13, 17,**
- The only **even prime** number is **2**
- The **smallest prime** number is **2**
- The **smallest odd prime** number is **3**
- The **common factor** of all numbers is **1**
- The **common multiple** of all numbers is **0**
- The **G.C.F** of any **two prime** numbers is **1**
- The **L.C.M** of any **two prime** numbers is **their product**

➤ Relation between factors and multiples:

- Any number** is a **factor** and **multiple** of **itself**

Ex: $1 \times 6 = 6$ $2 \times 3 = 6$

- 1, 6, 2, 3** are **factors** of **6**
- 6** is a **multiple** of each of **1, 6, 2, 3**

$$\begin{array}{ccccc} 2 & \times & 3 & = & 6 \\ \downarrow & & \downarrow & & \downarrow \\ \text{factor} & & \text{factor} & & \text{multiple} \end{array}$$

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(1) Choose the correct answer:

1) Which of the following represents an equation?

- a. $4.8 + 2.5$ b. $x - 5 = 3.14$ c. $y + 4.8$ d. $9 - b$

2) $y + 12$ is called

- a. Expression b. Equation c. Place value d. Value

3) The variable in the equation $56.4 + x = 96$ is

- a. 56.4 b. x c. 96 d. 6.5

4) Which of the following equations represent the mathematic operation:
[6 plus a number equal 11]?

- a. $B - 11 = 6$ b. $B - 6 = 11$ c. $6 + 11 = B$ d. $6 + B = 11$

5) The value of variable $x + 4.5 = 8$ is

a. 35

b. 4.5

c. 3.5

d. 5.5

6) By using the bar model: the value of m is

a. 2.8

b. 1.64

c. 1.8

d. 0.36

3.16	
m	2.8

7) The number 7 has factors.

a. 1

b. 2

c. 3

d. 4

8) is the only even prime number

a. 0

b. 1

c. 2

d. 3

9) The prime factors of the number 18 are

a. 2, 2 and 3

b. 2,3 and 3

c. 6 and 2

d. 4 and 3

10) The number whose its prime factors are 2,2,3 is

a. 7

b. 8

c. 12

d. 18

11) The common factor of all numbers is

a. 0

b. 1

c. 2

d. 3

12) The number where the sum of its factor is 8 is

a. 2

b. 3

c. 5

d. 7

13) The prime factors of 12 is

a. 2,2 and 3

b. 1,2 and 3

c. 2, 3, 5

d. 2, 3, 4

14) The G.C.F of 20 and 30 is

a. 1

b. 4

c. 5

d. 10

15) The G.C.F of 5 and 7 is

a. 12

b. 35

c. 1

d. 0

16) The number is a multiple of 5

a. 6

b. 9

c. 37

d. 20

17) The number is a common multiple of 3 and 5 together.

a. 10

b. 8

c. 15

d. 20

18) The multiple of any number is

a. 0

b. 1

c. 2

d. 3

19) The L.C.M of 5 and 10 is

a. 5

b. 10

c. 15

d. 20

20) The L.C.M of 2 and 7 is

a. 2

b. 7

c. 14

d. 9

(2) Complete:

1) The variable in the equation $x + 5 = 9$ is x

2) If $y + 1.2 = 7.5$, then $y =$ 6.3

3) If $a - 1.241 = 0.213$, then $a =$ 1.454

4) In the bar model

30.8	
a	19.5

, the value of $a =$ 11.3

5) The equation which represents the model is $p + 3.2 = 6.5$

6.5	
p	3.2

6) The number whose prime factors are 2,2,5 is 20

7) The number 11 has 2 factors

8) The G.C.F of 16 and 24 is 8

9) The G.C.F of 2 and 3 is 1

10) The L.C.M of 6 and 12 is 12

11) The number 1 is a factor of all numbers

12) 0 is a multiple of all numbers

(3) Answer the following:

1) Find the greatest common factor [G.C.F] of 12 and 18

G.C.F = 6

2) Write the prime factors of 35 and 28, then find the G.C.F for them.

Prime factors of 35 : 5,7

Prime factors of 28 : 2,2,7

G.C.F = 7

3) Find L.C.M for the two numbers 8 and 12

L.C.M = 24

4) Find the L.C.M and G.C.F for the two numbers 6 and 10

G.C.F = 2

L.C.M = 30

Summary of unit 3

➤ Multiplying by a 2-digit number:

1. Area model:	2. Distributive property:	3. Standard algorithm									
32×46 <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">40 6</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td></td><td>30</td><td>2</td></tr> <tr> <td>1,200</td><td>80</td><td></td></tr> <tr> <td>180</td><td>12</td><td></td></tr> </table> </div> $\begin{array}{r} 1 \\ 1,200 \\ + 180 \\ + 80 \\ + 12 \\ \hline 1,472 \end{array}$		30	2	1,200	80		180	12		53×68 $53 \times 68 = (50 + 3) \times (60 + 8)$ $= (50 \times 60) + (50 \times 8) + (3 \times 60) + (3 \times 8)$ $= 3,000 + 400 + 180 + 24$ $= \underline{3,604}$	37×42 $\begin{array}{r} 2 \\ 1 \\ 37 \\ \times 42 \\ \hline 174 \\ + 1480 \\ \hline 1,554 \end{array}$
	30	2									
1,200	80										
180	12										

➤ Estimate the product:

1. Round to the greatest place value:	2. Front-end estimation strategy:
EX: 32×574 Estimate: $30 \times 600 = 18,000$	EX: 43×382 Estimate: $40 \times 300 = 12,000$

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(1) Choose the correct answer:

- 1) $(3 \times 61) + (5 \times 61) = \dots \times 61$
 a. 53 b. 35 c. 8 d. 6
- 2) $(40 \times 23) + (2 \times 23) = \dots \times 23$
 a. 24 b. 42 c. 8 d. 6
- 3) $(11 \times 3) + (11 \times 20) + (11 \times 100) = 11 \times \dots$
 a. 123 b. 321 c. 213 d. 210

4) The area model of multiplication equation: 26×18 is

- a.

	2	6
1	2	6
8	16	48
- b.

	20	6
10	2	60
8	160	480
- c.

	<u>20</u>	<u>6</u>
<u>10</u>	<u>200</u>	<u>60</u>
<u>8</u>	<u>160</u>	<u>48</u>
- d.

	80	2
10	800	20
6	480	12

5) The missing number in the opposite area model is

- a. 6 b. 60
c. 600 d. 500

	20	5
30	150
2	40	10

6) From the opposite model, the value of y is

- a. 300×6 b. 60×6
c. 4×6 d. 60×30

	300	60	4
30	9,000	1,800	120
6	1,800	y	24

7) The opposite area model represents multiplication problem:

- a. 25×34 b. 25×43
c. 52×43 d. 52×34

	20	5
40	800	200
3	60	15

8) Estimate of the product of 971×23 is

- a. 20,000 b. 8,000 c. 2,000 d. 20

9) The result of estimation of: 603×97 by using rounding to the nearest ten is

- a. 600 b. 6,000 c. 60,000 d. 7,000

10) $23 \times \dots = 2,300$

- a. 10 b. 100 c. 1,000 d. 10,000

11) $45 \times 33 = \dots$

- a. 1,845 b. 1,485 c. 1,548 d. 8,154

12) A train consist of 12 wagons, each wagon has 48 seats, then the number of seats in the train = seat

- a. 4 b. 36 c. 60 d. 576

13) If $5 \times v = 45$, then $v = \dots$

- a. 5 b. 9 c. 30 d. 1

14) A shoes costs 400 L.E, which is 4 times as much as shirt costs, then a shirt costs = L.E

- a. 500 b. 396 c. 300 d. 100

(2) Complete:

- 1) $234 \times 57 = (200 \times 50) + (200 \times 7) + (30 \times 50) + (30 \times \underline{7}) + (4 \times 50) + (4 \times 7)$
- 2) $43 \times 26 = (3 \times 6) + (3 \times 20) + (40 \times 6) + (40 \times \underline{20})$
- 3) $78 \times \underline{23} = (3 \times 8) + (20 \times 8) + (3 \times 70) + (20 \times 70)$
- 4) $9 \times 27 = (9 \times \underline{20}) + (9 \times 7)$
- 5) $(6 \times 87) + (2 \times 87) = \underline{8} \times 87$
- 6) $130 \times 30 = \underline{3,900}$
- 7) $4,231 \times 3 = \underline{12,693}$
- 8) Sara bought 36 books for 100 L.E each. She paid = 3,600
- 9) If $4 \times m = 16$, then the value of $m = \underline{4}$
- 10) 100,000 $\times 9 = 900,000$
- 11) The product of 899×11 is closer to the product of 900 \times 10
- 12) The ones digit of the product 137×24 will be 8

(3) Answer the following:

- 1) A group of 48 people want to travel by bus. Each bus ticket costs 175 L.E. How much do they need to pay in all?
 $48 \times 175 = 8,400$ L.E
- 2) Ahmed has 300 pounds to spend on new clothes. If he bought 12 pair of socks for 18 pounds a pair. How much money will he have left to spend?
He paid: $12 \times 18 = 216$ pounds
money left= $300 - 216 = 84$ pounds
- 3) Youssef walk every day 5 km, if he walk 154 days in the year. How many kilometers did he walk?
 $5 \times 154 = 770$ km

Summary of unit 4

> dividing by a 2-digit number:

1. Area model

$$1,625 \div 13$$

	100	20	5
13	$\begin{array}{r} 1,625 \\ - 1,300 \\ \hline 325 \end{array}$	$\begin{array}{r} 12 \\ - 260 \\ \hline 65 \end{array}$	$\begin{array}{r} 65 \\ - 65 \\ \hline 00 \end{array}$

$$\begin{aligned} 13 \times 1 &= 13 \\ 13 \times 2 &= 26 \\ 13 \times 3 &= 39 \\ 13 \times 4 &= 52 \\ 13 \times 5 &= 65 \\ 13 \times 6 &= 78 \\ 13 \times 7 &= 91 \\ 13 \times 8 &= 104 \\ 13 \times 9 &= 117 \\ 13 \times 10 &= 130 \end{aligned}$$

$$1,625 \div 13 = 125$$

2. Standard algorithm

$$1,625 \div 13$$

$$\begin{array}{r} 125 \\ 13 \overline{) 1,625} \\ \underline{- 13} \\ 32 \\ \underline{- 26} \\ 65 \\ \underline{- 65} \\ 00 \end{array}$$

$$\begin{aligned} 13 \times 1 &= 13 \\ 13 \times 2 &= 26 \\ 13 \times 3 &= 39 \\ 13 \times 4 &= 52 \\ 13 \times 5 &= 65 \\ 13 \times 6 &= 78 \\ 13 \times 7 &= 91 \\ 13 \times 8 &= 104 \\ 13 \times 9 &= 117 \\ 13 \times 10 &= 130 \end{aligned}$$

$$1,625 \div 13 = 125$$

> Estimate the quotient:

EX: estimate the quotients of each of the following:

$$8,325 \div 18$$

Estimate: $8,000 \div 20 = 400$

$$11,721 \div 42$$

Estimate: $12,000 \div 40 = 300$

> Relation between multiplication and division:

$$\text{Dividend} = (\text{divisor} \times \text{quotient}) + \text{remainder}$$

$$7,704 \div 35$$

$$\begin{array}{r} 220 \\ 35 \overline{) 7,704} \\ \underline{- 70} \\ 70 \\ \underline{- 70} \\ 04 \end{array}$$

$$\begin{aligned} 35 \times 1 &= 35 \\ 35 \times 2 &= 70 \\ 35 \times 3 &= 105 \\ 35 \times 4 &= 140 \\ 35 \times 5 &= 175 \\ 35 \times 6 &= 210 \end{aligned}$$

$$7,704 = 35 \times 220 + 4$$

dividend divisor quotient remainder

$$7,704 \div 35 = 220 \text{ R } 4$$

➤ Operations keywords:

- **Addition** keywords (+): add – sum – together – all – total
- **Subtraction** keywords (-): difference – remain – left – rest – decrease – more than
- **Multiplication** keywords (×): multiply – product – times
- **Division** keywords (÷): divide – distribute – split – cut into

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(1) Choose the correct answer:

- The divisor in $216 \div 43 = 5 \text{ R}1$ is
 a. 216 b. 43 c. 5 d. 1
- $640 \div \dots = 640$
 a. 0 b. 1 c. 10 d. 100
- $29 \div 4 = 7 \text{ R} \dots$
 a. 0 b. 1 c. 2 d. 3
- $1,515 \div 15 = \dots$
 a. 11 b. 101 c. 1,001 d. 15
- If $3,012 \div 12 = 251$, then $251 \times 12 = \dots$
 a. 3,012 b. 3,013 c. 3,014 d. 3,015
- Quotient of $7,668 \div 54$ is
 a. 142 b. 124 c. 214 d. 241
- If $26 \times 352 = 9,152$, then $9,155 \div 26 = \dots$
 a. 352 b. 352 R1 c. 352 R2 d. 352 R3
- $4,150 \div 29 = 143 \text{ R} \dots$
 a. 4 b. 2 c. 1 d. 3
- From the opposite model, the quotient is
 a. 5 b. 20
 c. 100 d. 125

	100	20	5
5	$\begin{array}{r} 625 \\ - 500 \\ \hline 125 \end{array}$	$\begin{array}{r} 125 \\ - 100 \\ \hline 25 \end{array}$	$\begin{array}{r} 25 \\ - 25 \\ \hline 00 \end{array}$

10) The division equation which represents the opposite area model is

a. $975 \div 25 = 39$ b. $39 \div 25 = 975$

c. $975 \div 25 = 38$ d. $975 \div 25 = 31$

	30	8	1
	975	225	25
25	- 750	- 200	- 25
	225	25	00

11) The divisor in the opposite area model is

a. 100 b. 50

c. 7 d. 150

	100	50
	1,050	350
7	- 700	- 350
	350	000

12) The remainder in the opposite model is

a. 216 b. 15

c. 3,248 d. 8

	200	10	6
	3,248	248	98
15	- 3,000	- 150	- 90
	248	98	08

(2) Complete:

1) If $325 \div 25 = 13$, then 25 is called divisor

2) If $676 \div 52 = 13$, then the dividend is 676

3) The quotient in $480 \div 10 = 48$ is 48

4) The quotient of $54 \div 5 = 10$, then the remainder is 4

5) The remainder of divided 17 by 5 is 2

6) $34 \div 4 = 8$ R 2

7) $45 \div 5 = 9$ R 0

8) $0 \div 23 =$ 0

9) $120 \div 20 =$ 6

10) $1,227 \div 12 =$ 102 R 3

(3) Answer the following:

- 1) A school distributed 840 books among 15 classes equally, find number of books in each class?

$840 \div 15 = 56$ books

- 2) A teacher wants to distribute 510 prizes to 5 classes equally. How many prizes per each class?

$510 \div 5 = 102$ prizes

- 3) Find the quotient of division $11 \div 7$

$11 \div 7 = 1 \text{ R } 4$

- 4) If 18 plums are packed each 3 in a bag, then how many bags will be there?

$18 \div 3 = 6$ bags

- 5) Distribute 3,600 L.E. between 9 persons equally. How much every one take?

$3,600 \div 9 = 400$ L.E

- 6) If 165 passengers travel to Cairo by private cars, if the number of passengers in each car is 11 passengers, what is the number of cars to transport all the passengers?

$165 \div 11 = 15$ cars

- 7) A charity wants to distribute 3,125 pounds into 25 persons equally. What's the share of each person?

$3,125 \div 25 = 625$ pounds

Summary of unit 5

➤ Multiplying and dividing by powers of 10:

- $\times 10, 100, 1000$

Move the decimal point to the **right**

EX: $1.562 \times 10 = 15.62$

- $\times 0.1, 0.01, 0.001$

Move the decimal point to the **left**

EX: $345.3 \times 0.01 = 3.453$

- $\div 10, 100, 1000$

Move the decimal point to the **left**

EX: $45 \div 10 = 4.5$

- $\div 0.1, 0.01, 0.001$

Move the decimal point to the **right**

EX: $3.5 \times 0.01 = 350$

➤ Decimals and metric system:

- Measuring **length**:

Km _ _ m _ _ cm _ mm

EX: $2.5 \text{ km} = 2,500 \text{ m}$

EX: $75.8 \text{ mm} = 7.58 \text{ cm}$

- Measuring **mass (weight)**:

Kg _ _ g

EX: $2.35 \text{ kg} = 2,350 \text{ g}$

EX: $23.7 \text{ g} = 0.0237 \text{ kg}$

- Measuring **capacity**:

L _ _ ml

EX: $3.52 \text{ L} = 3,520 \text{ ml}$

EX: $12,350 \text{ ml} = 12.35 \text{ L}$

➤ Multiplying decimals:

EX: $0.4 \times 3 = \dots\dots$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$0.4 \times 3 = 1.2$
1 decimal 0 decimal 1 decimal

EX: $0.3 \times 0.6 = \dots\dots$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$0.3 \times 0.6 = 0.18$
1 decimal 1 decimal 2 decimal

EX: $37.4 \times 6.2 = \dots\dots$

$$\begin{array}{r} 42 \\ 1 \\ \times 374 \\ \times 62 \\ \hline 1748 \\ + 22440 \\ \hline 23188 \end{array}$$

$37.4 \times 6.2 = 231.88$
1 decimal 1 decimal 2 decimal

➤ Dividing decimals:

EX: $51.84 \div 16 = \dots\dots$

$$\begin{array}{r} 16 \times 1 = 16 \\ 16 \times 2 = 32 \\ 16 \times 3 = 48 \\ 16 \times 4 = 64 \\ 16 \times 5 = 80 \\ 16 \times 6 = 96 \end{array} \quad \begin{array}{r} 03.24 \\ 16 \overline{) 51.84} \\ \underline{- 48} \\ 038 \\ \underline{- 32} \\ 064 \\ \underline{- 64} \\ 00 \end{array}$$

EX: $58.5 \div 18 = \dots\dots$

$$\begin{array}{r} 18 \times 1 = 18 \\ 18 \times 2 = 36 \\ 18 \times 3 = 54 \\ 18 \times 4 = 72 \\ 18 \times 5 = 90 \\ 18 \times 6 = 108 \end{array} \quad \begin{array}{r} 3.25 \\ 18 \overline{) 58.50} \\ \underline{- 54} \\ 045 \\ \underline{- 36} \\ 90 \\ \underline{- 90} \\ 00 \end{array}$$

EX: $8.856 \div 3.6 = \dots\dots$

$$\begin{array}{r} 36 \times 1 = 36 \\ 36 \times 2 = 72 \\ 36 \times 3 = 108 \\ 36 \times 4 = 144 \\ 36 \times 5 = 180 \\ 36 \times 6 = 216 \end{array} \quad \begin{array}{r} 2.46 \\ 36 \overline{) 88.56} \\ \underline{- 72} \\ 165 \\ \underline{- 144} \\ 216 \\ \underline{- 216} \\ 000 \end{array}$$

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(1) Choose the correct answer:

1) $85.3 \times 0.01 = \dots\dots\dots$

a. 853

b. 8.53

c. 0.853

d. 85.03

2) $2 \text{ thousandths} \times 4 = \dots\dots\dots$

a. 8

b. 0.8

c. 0.08

d. 0.008

3) $35.2 \times \frac{1}{10} = \dots\dots\dots$

a. 35.20

b. 35.02

c. 3.52

d. 30.52

4) $2.51 \times \dots\dots\dots = 0.251$

a. 0.1

b. 0.01

c. 0.001

d. 10

5) $0.1 \times 0.1 = \dots\dots\dots$

a. 0.03

b. 0.02

c. 0.01

d. 0.2

6) $3 \text{ hundredths} \times 3 = \dots\dots\dots$

a. 9 hundreds

b. 9 hundredths

c. 0.90

d. 9

7) $3 \text{ tenths} \times 4 \text{ tenths} = \dots\dots\dots$

a. 12 tenths

b. 12 hundredths

c. 12 thousandths

d. 12 ones

8) $3 \times 2 \text{ thousandths} = \dots\dots\dots \text{ thousandths}$

a. 5

b. 6

c. 32

d. 23

9) The product of $0.9 \times 5 = \dots\dots\dots$

a. 0.45

b. 4.5

c. 5.4

d. 45

10) $3.1 \times 1.1 = \dots\dots\dots$

a. 34.1

b. 341

c. 0.341

d. 3.41

11) Since $35 \times 47 = 1,645$, then $3.5 \times 0.47 = \dots\dots\dots$

a. 164.5

b. 16.45

c. 1.645

d. 1,645

12) From the area model, $m = \dots\dots\dots$

a. 20

b. 0.02

c. 0.2

d. 2

	4	0.3
2	8	0.6
0.5	m	0.15

- 13) 9.13×3.5 91.3×0.35
 a. > b. < c. \equiv d. Otherwise
- 14) $0.7 \text{ m} =$ cm
 a. 7 b. 70 c. 700 d. 7,000
- 15) $17.6 \text{ kg} =$ g
 a. 0.176 b. 1.76 c. 1,760 d. 17,600
- 16) $3.5 \text{ L} - 1,500 \text{ ml} =$ L
 a. 2 b. 20 c. 200 d. 2,000
- 17) Aya ran a 5 kilometers race. How many meters did she run?
 a. 50 b. 500 c. 5,000 d. 0.005
- 18) There are milliliters in 18 liters
 a. 18 b. 180 c. 1,800 d. 18,000
- 19) $32.59 \div 0.1 =$
 a. 3.259 b. 32.59 c. 325.9 d. 3,259
- 20) $85.3 \div \frac{1}{100} =$
 a. 8,530 b. 8.53 c. 0.853 d. 85,300
- 21) $3,200 \text{ ml} =$ L
 a. 320 b. 32 c. 3.2 d. 0.23
- 22) There are 30,000 grams in kilograms
 a. 3 b. 3,000 c. 30 d. 300
- 23) $80 \div 0.08 =$
 a. 10 b. 100 c. 1,000 d. 8,000
- 24) $32.5 \div$ = 100
 a. 3.25 b. 0.0325 c. 0.325 d. 325
- 25) $462.3 \div 0.23$ $4,623 \div 2.3$
 a. > b. < c. \equiv d. Otherwise
- 26) 30 days \approx weeks [to the nearest week]
 a. 3 b. 4 c. 5 d. 6

- 27) $35 \div 0.7 = \dots\dots$
 a. 50 b. 70 c. 0.7 d. 0.5
- 28) $90 \div 0.03 = \dots\dots$
 a. 3,000 b. 30 c. 300 d. 3
- 29) $1.5 \div 0.5 = \dots\dots$
 a. 5 b. 3 c. 0.5 d. 0.3
- 30) $25.25 \div 0.25 = \dots\dots$
 a. 11 b. 101 c. 110 d. 111
- 31) $700 \text{ g} = \dots\dots \text{ kg}$
 a. 0.7 b. 7 c. 0.07 d. 0.007
- 32) $8.43 \times 0.2 \approx \dots\dots$ [to the nearest hundredths]
 a. 1.686 b. 1.7 c. 1.69 d. 2
- 33) $7.18 \times 3.5 \dots\dots 71.8 \times 0.35$
 a. > b. < c. = d. Otherwise
- 34) $461.12 \div 10 = \dots\dots$
 a. 4.6112 b. 46.112 c. 461.12 d. 4611.2
- 35) $6.345 \div 0.01 = \dots\dots$
 a. 6,345 b. 0.06345 c. 634.5 d. 63,450
- 36) $2 \div 0.4 = \dots\dots$
 a. 2 b. 10 c. 5 d. 8
- 37) The divisor in the equation $1.8 \div 6 = 0.3$ is
 a. 0.3 b. 1.8 c. 6 d. 3
- 38) $735 \text{ cm} = \dots\dots \text{ m}$
 a. 73,500 b. 7.35 c. 73.5 d. 7,350
- 39) $100 \times 5.2 = \dots\dots$
 a. 5.20 b. 520 c. 0.52 d. 52

- 40) $0.3 \times 5 = \dots\dots$
 a. 0.35 b. 1.5 c. 15 d. 150
- 41) $7.14 \times 0.1 = \dots\dots$
 a. 0.714 b. 71.4 c. 7.140 d. 714
- 42) $3.6 \div 0.04 = \dots\dots$
 a. 0.9 b. 90 c. 0.09 d. 0.009
- 43) $\dots\dots \times 0.01 = 4.12$
 a. 412 b. 4,120 c. 41,200 d. 0.412
- 44) $0.6 \times 0.5 = \dots\dots$
 a. 30 b. 3 c. 0.3 d. 0.65
- 45) $4.1 \times 1.1 = \dots\dots$
 a. 45.1 b. 451 c. 0.451 d. 4.51
- 46) $3.25 \times 0.1 = \dots\dots$
 a. 325 b. 32.5 c. 3.25 d. 0.325
- 47) 95 millimeters = $\dots\dots$ cm
 a. 9.5 b. 0.95 c. 0.0095 d. 0.095
- 48) $4.25 \dots\dots 2.2 \div 0.1$
 a. = b. > c. \leq d. Otherwise
- 49) $0.35 \div 0.5 = \dots\dots$
 a. 7 b. 0.007 c. 0.07 d. 0.7
- 50) The quotient of $2.4 \div 0.4 = \dots\dots$
 a. 11 b. 6 c. 0.6 d. 1.6
- 51) $0.4 \times 0.6 = \dots\dots$
 a. 24 b. 2.4 c. 0.24 d. 0.024
- 52) $58.675 \times 0.10 = \dots\dots$
 a. 58.675 b. 5.8675 c. 586.75 d. 60

(2) Complete:

- 1) $0.2 \times 0.3 = \underline{0.06}$
- 2) $123 \times 0.01 = \underline{1.23}$
- 3) $4.2 \times 5.6 = \underline{23.52}$
- 4) $\underline{532.4} \times 0.01 = 5.324$
- 5) $25 \times 0.1 = \underline{2.5}$
- 6) $5.4 \times 0.12 = \underline{0.648}$
- 7) $513.2 \div 0.01 = \underline{51,320}$
- 8) $89.36 \div 100 = 89.36 \times \underline{0.01}$
- 9) $250 \text{ ml} = \underline{0.250} \text{ L}$
- 10) $36 \text{ cm} = \underline{360} \text{ mm}$
- 11) $2,000 \text{ g} = \underline{2} \text{ kg}$
- 12) The quotient of $6.66 \div 6 = \underline{1.11}$
- 13) The quotient of $84.24 \div 2 = \underline{42.12}$
- 14) $2.1 \div 0.7 = \underline{3}$

(3) Answer the following:

- 1) Ant walks 0.2 km on a day. How many meters does it walk
 $\underline{0.2 \times 1,000 = 200 \text{ meters}}$
- 2) Ali bought 9 cans of soda , if the price of one can is 6.5 pounds. How much money did Ali pay ?
 $\underline{9 \times 6.5 = 58.5}$
- 3) A rope that is 4.5 meters long is cut into 3 equal pieces. How long is each piece?
 $\underline{4.5 \div 3 = 1.5 \text{ meters}}$
- 4) If the price of a bottle of juice is 14.5 L.E. what is the price of 15 bottles of the same juice?
 $\underline{14.5 \times 15 = 217.5 \text{ L.E.}}$
- 5) Ali has 6.72 m of wire , if he decided to cut it into 16 pieces. What is the length of each piece?
 $\underline{6.72 \div 16 = 0.42 \text{ m}}$
- 6) Find the result of: 2.14×2.7
 $\underline{2.14 \times 2.7 = 5.778}$
- 7) Ahmed bought 10 pens of the same type, if the price of one pen is 4.5 pounds. How much money Ahmed paid?
 $\underline{10 \times 4.5 = 45 \text{ pounds}}$

Summary of unit 6

> Order of operations:

The order is:

- 1) ()
- 2) \times or \div
- 3) $+$ or $-$

Ex: $[(12 + 10) \times 0.2] \div 0.1$

$$= [22 \times 0.2] \div 0.1$$

$$= 4.4 \div 0.1 = 44$$

Ex: $0.5 + (4.7 - 4.1) \times 0.4$

$$= 0.5 + 0.6 \times 0.4$$

$$= 0.5 + 0.24$$

$$= 0.74$$

> Writing expressions:

• Mathematical expressions keywords:

- ✓ Addition (+): add, plus, sum
- ✓ Subtraction (-): subtract, minus, difference, left, remainder, more than, decrease
- ✓ Multiplication (\times): multiply, times, product
- ✓ Division (\div): divide, distribute, quotient

Ex:

Subtract 3.1 from 4.62. Then, multiply the result by 2

Expression: $(4.62 - 3.1) \times 2$

> Numerical pattern:

• Numerical pattern

- pattern increases: add (+), multiply (\times)
- pattern decrease: subtract ($-$), divide (\div)
- writing rule: $+ 2$ or $\text{add } 2$ or $n + 2$

EX: 3, 6, 9, 12, 15, **Rule:** $+ 3$

EX: 2, 4, 8, 16, **Rule:** $\times 2$

EX: 45, 40, 35, 30, **Rule:** $- 5$

EX: 80, 40, 20, 10, **Rule:** $\div 2$

• Numerical pattern using table:

Input	Output
1	3
2	6
3	9
4	12
5	15

Rule: $n \times 3$

اسئلة من امتحانات المحافظات

(1) Choose the correct answer:

1) What is the first step in evaluating: $28.1 - 3.5 \times 0.2 + 29 - 4$?

a. $28.1 - 3.5$

b. 3.5×0.2

c. $0.2 + 29$

d. $29 - 4$

- 2) To find the value of expression: $43.1 \div 0.1 - 3.1 (2.2 + 3.8)$ perform the operations first
- a. Subtraction b. Multiplication c. Within parenthesis d. division
- 3) $2.3 \div 0.1 + 10 = \dots\dots\dots$
- a. 230 b. 10.23 c. 33 d. 0.33
- 4) $12 + 24 \div 4 + 8 = \dots\dots\dots$
- a. 28 b. 26 c. 22 d. 10
- 5) The value of this expression: $(7.5 \times 10) + 2.3$ is
- a. 77.3 b. 9.8 c. 19.8 d. 2.78
- 6) $25 \times 4 \div (6 - 5) = \dots\dots\dots$
- a. 100 b. 101 c. 0.01 d. 165
- 7) $(13.5 - 5.13) \div 0.1 + 16.3 = \dots\dots\dots$
- a. 10 b. 83.5 c. 30 d. 100
- 8) Which expression matches the clue " add 30 to 25 and divide the result by 0.5 "?
- a. $30 + 25 \div 0.5$ b. $0.5 \times (30 + 25)$ c. $(30 + 25) \div 0.5$ d. $30 \div 0.5 + 25$
- 9) Subtract 2.2 from 6.42 and multiply the result by 3 , then the expression is
- a. $2.2 \times 2 - 6.42$ b. $3 \times 6.42 - 2.2$ c. $6.42 - 2.2 \times 2$ d. $(6.42 - 2.2) \times 3$
- 10) 3, 5, 7, 9, 11, In the same pattern
- a. 21 b. 15 c. 13 d. 12
- 11) 2, 5, 8, 11, in the same pattern
- a. 12 b. 14 c. 16 d. 17
- 12) The missing value in the pattern 23, 27,, 35 ,is
- a. 29 b. 31 c. 30 d. 34
- 13) The pattern rule of: 35, 31, 27, 23, ... is
- a. $n - 2$ b. $n + 4$ c. $n \times 4$ d. $n - 4$

14) The rule of the pattern: 3, 7, 11, 15, is

a. $n - 4$

b. $n + 4$

c. $n \times 4$

d. $n \div 4$

15) If the input is 45, and the rule " $n \div 5$ ", then the outputs is

a. 6

b. 40

c. 9

d. 50

16) 16, 8, 4, [in the same pattern]

a. 4

b. 1

c. 2

d. 8

17) The first operation to solve: $983 - 16 \div 8 + 11 \times 10$

a. add

b. subtraction

c. multiply

d. divided

18) $5.4 \times 0.1 - 0.32 =$

a. 0.68

b. 53.68

c. 0.22

d. 54.2

19) $15 \div 5 + 7 =$

a. 5

b. 7

c. 3

d. 10

20) $6 + 2.4 \times 10 =$

a. 84

b. 0.84

c. 20

d. 30

21) If the starting number is 5, and the pattern rule is: $n + 7$, then the pattern is

a. 5, 12, 17, 22, b. 5, 12, 19, 26, c. 5, 7, 9, 11, d. 7, 12, 17, 22,

22) From the following table: the rule of the pattern is

a. $n \times 2$

b. $n + 2$

c. $n \div 2$

d. $n - 2$

Input	3	6	9	12
Output	6	12	18	24

23) If the input is 6 and the output is 2, then the rule is

a. $n + 3$

b. $n \times 2$

c. $n \div 2$

d. $n \times 3$

(2) Complete:

1) $2 + 7 \times 5 - 6 =$ 31

2) $55 \div 5 + 2 =$ 13

3) $5.5 \div 5 \times 10 - 10 =$ 1

- 4) $3.52 \times 10 + 283 \div 10 = \underline{63.5}$
- 5) $2.4 + 3.15 \times 10 - 7.6 = \underline{26.3}$
- 6) $3.3 \div 3 \times 10 = \underline{11}$
- 7) 10, 30, 50, 70 , 90 [in the same pattern]
- 8) 1.3, 1.7, 2.1, 2.5, 2.9, 3.3 [in the same pattern]
- 9) 5, 10, 20, 40, 80 [in the same pattern]
- 10) 23, 27, 31, 35, 39 [in the same pattern]
- 11) 1.5, 3, 4.5, 6, 7.5
- 12) 0, 3, 6, 9, 12, 15
- 13) 85, 80, 75, , the rule is 70
- 14) In the pattern 5, 10, 15, 20, , the rule is n+5
- 15) In the pattern 3, 5, 7, 9, , the rule is n+2
- 16) From the following table:
The rule of the pattern is $n \times 4$
- | | | | | |
|--------|----|----|----|----|
| Input | 5 | 6 | 7 | 8 |
| Output | 20 | 24 | 28 | 32 |
- 17) From the following table:
The rule of the pattern is $n \div 7$
- | | | | |
|--------|----|----|----|
| Input | 28 | 35 | 42 |
| Output | 4 | 5 | 6 |

(3) Answer the following:

- 1) Use order of mathematical operations to evaluate : $4.2 + 24 \div 4 + 8$

$4.2 + 6 + 8 = 18.2$

- 2) Write the expression matches the clue then evaluate it: Subtract 3.1 from 4.21 then multiply the result by 0.1

Expression: $(4.21 - 3.1) \times 0.1$

$(4.21 - 3.1) \times 0.1 = 1.11 \times 0.1 = 0.111$

ELIAS

Ministry of education

Math consultant office

(Model exam + model answer)

First : Choose the correct answer :

- (1) The value of the digit 4 in the number 3.514 is
- (a) 40,000 (b) 400 (c) 0.4 (d) 0.004
- (2) The value of variable x in the equation $x + 3.5 = 8$ is
- (a) 3.5 (b) 5.4 (c) 4.5 (d) 5.5
- (3) All the following numbers are prime numbers except
- (a) 2 (b) 5 (c) 7 (d) 9
- (4) The number..... is a common factor for all numbers
- (a) 0 (b) 1 (c) 2 (d) 3
- (5) $18.58 \approx$ (to the nearest Whole number)
- (a) 59 (b) 19 (c) 18 (d) 18.6
- (6) $20 + 0.07 + 0.008 =$
- (a) 20.078 (b) 20.78 (c) 20.708 (d) 20.807
- (7) $85.3 \times \frac{1}{10} =$
- (a) 853 (b) 8.53 (c) 0.853 (d) 85.03

Second : Complete each of the following :

(1) 5 thousandth + 73 hundredth = Thousandth

(2) The number whose all prime factor are 3 , 2 and 2 is.....

(3) 1000 gm. =Kg.

(4) The (G.C.F) of 8 , 12 is

(5)The product of $13.5 \times 2.2 = \dots\dots\dots$

(6) The sum of $3.127 + 8.65 = \dots\dots\dots$

(7) The quotient of $6.66 \div 6 = \dots\dots\dots$

(8) The number $3 + 0.2 + \frac{5}{100} + \frac{9}{1000}$ in standard form =

Third: Choose the correct answer

(1) $(4 \times 85) + (2 \times 85) = \dots \times 85$

- (a) 24 (b) 42 (c) 8 (d) 6

(2) Five ones , forty seven thousandth =

- (a) 57.40 (b) 5.740 (c) 5.47 (d) 5.047

(3) The number is one of the multiples of the digit 6

- (a) 16 (b) 26 (c) 24 (d) 106

(4) The prime factors of the number 12 are

- (a) 2 , 2 , 3 (b) 2 , 3 , 3 (c) 6 , 2 (d) 4 , 3

(5) $\frac{357}{1000} = \dots$

- (a) 3.75 (b) 0.357 (c) 357 (d) 3.57

(6) The value of the variable x in the equation $x - 2.5 = 4$ is

- (a) 1.5 (b) 6.5 (c) 5.6 (d) 5.1

(7) The composite number in the following numbers is

- (a) 7 (b) 13 (c) 15 (d) 5

Fourth :Answer the following:

Ahmed bought 9 pens of the same type ,If the price of one pen is 4.5 pound.
How much money will Ahmed pay?

.....

.....

.....

.....

Find (L.C.M) for the two numbers (6 , 10) .

.....

.....

.....

.....

Decompose the number 80.507 using the expanded form

.....

.....

.....

.....

A teacher wants to distribute 280 prizes to 7 classes equally. How many prizes
per each class?

.....

.....

.....

.....

Model Answer for the Model Exam grade 5th primary First Term 2022/2023

Question 1: Choose the correct answer:

7 items, one mark for each item

- (1) d) 0.004
- (2) c) 4.5
- (3) d) 9
- (4) b) 1
- (5) b) 19
- (6) a) 20.078
- (7) b) 8.53

Question 2: Complete each of the following:

8 items, one mark for each item

- (1) 735 thousandth.
- (2) 12
- (3) 1kg.
- (4) 4
- (5) 29.7
- (6) 11.777
- (7) 1.11
- (8) 3.259

Question 3: Choose the correct answer:

7 items, one mark for each item

- (1) d) 6
- (2) d) 5.047
- (3) c) 24
- (4) a) 2 , 2 , 3
- (5) b) 0.357
- (6) b) 6.5
- (7) c) 15

Question 4:

4 items, two marks for each item

- (1) The total amount that Ahmed will pay = $9 \times 4.5 = 40.5$ L.E
(1 mark) (1 mark)
- (2) $10 = 2 \times 5$, $6 = 2 \times 3$ (1 mark)
L.C.M = $2 \times 3 \times 5 = 30$ (1 mark)
- (3) $0.007 + 0.5 + 80 = 80.507$ (2 marks)
- (4) Number of prizes of each class = $280 \div 7 = 40$
(1 mark) (1 mark)

Good luck

ELIAS

Directorates exams

1. Choose the correct answer:

1) $36 \div \dots\dots\dots = 9$

a. 4

b. 5

c. 3

d. 6

2) The product of 193×19 is near close to

a. 4,000

b. 40

c. 400

d. 40,000

3) There are Liter in 41,000 ml

a. 410

b. 41

c. 410,000

d. 4

4) $327 \times 53 \dots\dots\dots 199 \times 43$

a. \geq b. $<$ c. $=$ d. \leq

5) In $56.4 + X = 96$, the variable is

a. 56.4

b. X

c. 96

d. 6.5

6) If $3.462 - x = 1.451$, then $x = \dots\dots\dots$

a. 4.913

b. 2.011

c. 4.914

d. 2.001

7) In the equation $24 \div 4 = 6$, the remainder is

a. 1

b. 2

c. 0

d. 4

2. Complete the following:

1) 0.862 $\times 100 = 86.2$

2) $800 \text{ g} = \underline{0.8} \text{ kg}$

3) In the 342.18, the digit 8 is in the hundredths place and its value is 0.08

4) $0.9986 \approx \underline{0.999}$ [to the nearest thousandths]

5) If $y - 4.413 = 6.150$, then $y = \underline{10.563}$

6) The common multiple for all numbers is 0

7) $65 \times \underline{100} = 6,500$

8) Sixteen and seven tenths = 10 + 6 + 0.7

3. Choose the correct answer:

1) 7 tenths 0.699

a. \geq

b. $<$

c. $=$

d. \leq

2) 17.400 17.4

a. $>$

b. $<$

c. \equiv

d. \leq

3) Which of the following is an equation?

a. $50 + b$

b. $50 + b = 75$

c. $3.5 + k$

d. Mai saved 30 L.E per day

4) $0.076 = \dots \times 7.6$

a. 10

b. 0.1

c. 0.01

d. 0.001

5) The number four and forty-one thousandths in standard form is

a. 4.41

b. 4.041

c. 410.4

d. 4.401

6) The next number in the pattern: 5, 8, 11, 14, ... is

a. 15

b. 16

c. 17

d. 11

7) $45.9 - 20.76$ estimate to

a. 18

b. 25

c. 31

d. 35

4. Answer the following questions:

1) Find the G.C.F and L.C.M of 12 and 16

G.C.F: 4

L.C.M: 48

2) Solve the problem using an area model $42 \times 51 = \dots$

2,142

3) Ali walks 6 kilometers each day. If he walked 187 days, how many kilometers would he walk?

$6 \times 187 = 1,122$ kilometers

4) Hossam has 28 cans. He wants to divide it equally on 7 tables. How many cans will be on each table?

$28 \div 7 = 4$ cans

انتهت الاسئلة

1. Choose the correct answer:

- 1) $36.124 \times 100 = \dots\dots\dots$
a. 36.124 b. 361.24 c. 3,612.4 d. 36,124
- 2) What is the standard form for: $60 + 3 + 0.5 + 0.04$?
a. 63.54 b. 63.054 c. 63.504 d. 6.354
- 3) $\dots\dots\dots$ is a common multiple of 9 and 6
a. 12 b. 18 c. 24 d. 27
- 4) The value of the digit 4 in the number 98.764 is $\dots\dots\dots$
a. $\frac{4}{10}$ b. $\frac{4}{1,000}$ c. 0.04 d. 4,000
- 5) $3.6 + 5.411 = \dots\dots\dots$
a. 5.417 b. 8.1011 c. 8.417 d. 9.011
- 6) If $35 \times 47 = 1,645$, then $3.5 \times 0.47 = \dots\dots\dots$
a. 164.5 b. 16.45 c. 1.645 d. 1,645
- 7) The rule of the pattern 2, 5, 8, is
a. $n + 1$ b. $n + 2$ c. $n + 3$ d. $n + 4$

2. Complete the following:

- 1) $30 \div 4 = 7 \text{ R } \underline{2}$
- 2) If $k + 15.36 = 80.12$, then $k = \underline{64.76}$
- 3) The common multiple of all numbers is 0
- 4) 15.4 grams = 0.0154 kg
- 5) $36.365 \approx 36.4$ [to the nearest tenths]
- 6) Evaluate the expression: $1.6 \div 0.1 - 50 \times 0.1 = \underline{11}$
- 7) 2 is the only even prime number
- 8) The next number in the pattern 5, 6.5, 8, 9.5,... is 11

3. Choose the correct answer:

- 1) $17 \times 51 = \dots\dots\dots$
a. 687 b. 867 c. 785 d. 766
- 2) $5.2 \div 100 = \dots\dots\dots$
a. 5.7 b. 0.57 c. 0.057 d. 570
- 3) The prime factors of 12 are
a. 2,2 and 3 b. 1, 2 and 3 c. 2, 3 and 5 d. 2, 3 and 4
- 4) The equation representing a number x if added to 1.7 the sum is 2.8 written as
a. $x + 1.7 = 2.8$ b. $1.7 + 2.8 = x$ c. $x + 2.8 = 1.7$ d. $1.7 \times 2.8 = x$
- 5) 2.5 liters = Milliliters
a. 0.25 b. 25 c. 250 d. 2,500
- 6) $3.72 - 0.05 \dots\dots\dots 2.67$
a. \geq b. $<$ c. $=$ d. Otherwise
- 7) $80 \div 0.08 = \dots\dots\dots$
a. 10 b. 100 c. 1,000 d. 8,000

4. Answer the following questions:

- 1) Find the greatest common factor G.C.F of 12 and 18
G.C.F: 6
- 2) Hany has 3.45 meters of wire that is cutting into 5 equal pieces. Find the length of each piece of wire
 $3.45 \div 5 = 0.69$ meters
- 3) Mona had 95.5 L.E. She spent 33.75 L.E. Find the remainder with her
 $95.5 - 33.75 = 61.75$ L.E
- 4) Order from least to greatest : 0.65 km ,590 m ,0.8 km ,705 m
650 m ,590 m , 800 m ,705 m

The order: 590 m, 0.65 km, 705 m, 0.8 km

انتهت الاسئلة

1. Choose the correct answer:

1) $4.7 \times 1,000 = \dots\dots\dots$

a. 47

b. 470

c. 4,700

d.

2) The following model represents

	60	5
3	180	15

a. $63 \div 5$ b. $65 \div 3$ c. $165 \div 3$ d. 65×3

3) $(78 \times 72) = (70 \times 78) + (\dots \times 78)$

a. 70

b. 2

c. 8

d. 7

4) The divisor in the division $54 \div 9 = 6$ is

a. 54

b. 9

c. 6

d. 0

5) The common factor of all numbers is

a. 2

b. 3

c. 0

d. 1

6) $2.1 \times 0.1 = \dots\dots\dots$

a. 0.21

b. 10.5

c. 21

d. 2,100

7) $3.2 \div 4 = \dots\dots\dots$

a. 0.4

b. 0.6

c. 1.4

d. 0.8**2. Complete the following:**

1) $60 + 4 + 0.05 + 0.009 = \underline{64.059}$ [in standard form]

2) 2 is the only even prime number

3) 3.17 read as three and seventeen hundredths

4) 7.355 km = 7355 m

5) The result of $13.51 + 1.9 = \underline{15.41}$

6) The L.C.M of 3 and 6 is 6

7) 52.826 in expanded form is $52 + 0.8 + \underline{0.02} + \underline{0.006}$

8) 8.639 rounded to the nearest hundredths is 8.64

3. Choose the correct answer:

- 1) $8 + 16 \div 2 - 16 = \dots\dots$
a. 24 b. 0 c. 32 d. 12
- 2) If $3.23 + p = 11.25$, then $p = \dots\dots\dots$
a. 8.02 b. 8 c. $14 - 48$ d. 7.02
- 3) The value of 7 in the number 63.783 is $\dots\dots\dots$
a. 0.7 b. 7 c. 0.07 d. 0.007
- 4) 35 hundredths – 2 tenths = $\dots\dots\dots$ hundredths
a. 15 b. 55 c. 12 d. 32
- 5) $7.672 \approx 7.7$ is rounded to the nearest $\dots\dots\dots$
a. Hundreds b. Tenths c. Hundredths d. thousandths
- 6) 6.3 is 100 times as $\dots\dots\dots$
a. 0.63 b. 63 c. 0.063 d. 630
- 7) The place value of the underlined digit 0.734 is $\dots\dots\dots$
a. Tenths b. Zero c. Hundredths d. Ones

4. Answer the following questions:

- 1) Find G.C.F of 9 and 12
G.C.F: 3
- 2) a. $52.236 - 2.35 = \underline{49.886}$
b. $375 \div 15 = \underline{23}$
- 3) $15 \times 23 = \underline{375}$
- 4) Reem bought a piece of cloth with a Length of 5 meters. If the price of one meter of cloth is 3.8 L.E. , How much is the total cost?
 $5 \times 3.8 = 19 \text{ L.E}$

انتهت الاسئلة

1. Choose the correct answer:

- 1) The common factor of all numbers is
a. 0 b. 2 c. 1 d. 10
- 2) 5 km = m
a. 50 b. 5,000 c. 500 d. 5
- 3) $3.6 + 5.411 = \dots\dots\dots$
a. 5.447 b. 8.1011 c. 8.417 d. 9.011
- 4) If $125 \times 5 = 625$, then $626 \div 5 = 125 \text{ R } \dots\dots\dots$
a. 3 b. 1 c. 5 d. 2
- 5) $3.94 \times 10 = \dots\dots\dots$
a. 3.94 b. 39.4 c. 0.394 d. 394
- 6) The L.C.M of 6 and 10 is
a. 60 b. 30 c. 15 d. 45
- 7) The divisor in the equation $36 \div 4 = 9$ is
a. 36 b. 9 c. 4 d. zero

2. Complete the following:

- 1) $1,000 \times \underline{60} = 60,000$
- 2) 2 is the only even prime number
- 3) $140 \text{ cm} = \underline{1.4}$ meters
- 4) The value of digit 3 in the number 4.315 is 0.3
- 5) In the pattern: 3, 5, 7, 9, 11, ... , the rule is $n + 2$
- 6) $3 + 3 \text{ tenths} + 3 \text{ hundredths} = \underline{3.33}$
- 7) $36.479 \approx 36.5$ [to the nearest tenths]
- 8) The smallest odd prime number is 3

3. Choose the correct answer:

- 1) $316 \div 10 = \dots\dots\dots$
a. 31.6 b. 3.16 c. 0.316 d. 3,160
- 2) What is the ones digit of the product of 456×24 will be without solving the whole problem?
a. 3 b. 4 c. 5 d. 6
- 3) 0.9 is closer to
a. 0.5 b. 0.6 c. 1 d. 0.25
- 4) There are 5,000 milliliters in liters
a. 5 b. 50 c. 5,000,000 d. 500
- 5) 4 thousandths + 3 thousandths = thousandths
a. 70 b. 7 c. 43 d. 7.7
- 6) The common multiple of all numbers is
a. 1 b. 2 c. 0 d. 3
- 7) $2,323 \div 23 = \dots\dots\dots$
a. 11 b. 11.1 c. 1.1 d. 101

4. Answer the following questions:

- 1) Farida saved 17.25 pounds and her brother Murad saved 8.5 pounds.
Find the sum they saved
 $17.25 + 8.5 = 25.75$ pounds
- 2) Find G.C.F and L.C.M of 12 and 18
G.C.F: 6
- 3) a. $T - 2.45 = 0.26$
 $T = 2.45 + 0.26 = 2.71$
b. $2.56 + x = 3.8$
 $x = 3.8 - 2.56 = 1.24$
- 4) Find the result (show steps):
a. $1,477 \div 12$
123 R 1
b. 75×23
1,725

انتهت الاسئلة

1. Choose the correct answer:

- 1) Seven ones, thirty-eight thousandths =
a. 7.38 b. 70.38 c. 7.038 d. 38.7
- 2) The number Is one of multiples of the number 8
a. 20 b. 28 c. 32 d. 45
- 3) The prime factors of the number 18 are
a. 1 and 18 b. 2,3 and 3 c. 3 and 6 d. 2 and 9
- 4) The value of the variable k in the equation: $K - 2.5 = 4$ is
a. 3.5 b. 2.5 c. 4 d. 6.5
- 5) $57.3 \times 0.1 = \dots\dots\dots$
a. 0.573 b. 5.73 c. 573 d. 5,730
- 6) $36 \div 9 + 0.6 = \dots\dots\dots$
a. 4.6 b. 6.4 c. 10 d. 46
- 7) The composite number in the following numbers is
a. 3 b. 7 c. 5 d. 15

2. Complete the following:

- 1) 785 cm = 7.85 m
- 2) L.C.M for two numbers 6 and 9 is 18
- 3) The product of $12.4 \times 0.3 = \underline{3.72}$
- 4) 8 thousandths + 65 hundredths = 658 thousandths
- 5) The quotient of $8.46 \div 0.2 = \underline{42.3}$
- 6) G.C.F for two numbers 14 and 35 is 7
- 7) The number 68.769 approximating to the nearest hundredths is 68.77
- 8) 6, 12, 18 , 24 [in the same pattern]

3. Choose the correct answer:

- 1) The number Is a common factor for all numbers
a. 0 b. 1 c. 2 d. 3
- 2) $327.54 \approx$ [to the nearest whole number]
a. 327 b. 327.5 c. 328 d. 330
- 3) The value of the digit 9 in the number 7.829 is
a. 9 b. 0.9 c. 0.09 d. 0.009
- 4) $93.4 \times 100 =$
a. 0.934 b. 934 c. 9,340 d. 93,400
- 5) 5.6 liters = ml
a. 0.056 b. 56 c. 560 d. 5,600
- 6) $45.5 \div 5 =$
a. 0.91 b. 9.1 c. 91 d. 910
- 7) The digit in the tenths place in the number 83.25 is
a. 8 b. 3 c. 2 d. 5

4. Answer the following questions:

- 1) In the opposite model, find the value of variable x
 $x = 19.6 - 3.2 = 16.4$
- | | |
|------|-----|
| 19.6 | |
| x | 3.2 |
- 2) Rasha bought 3.75 kg of flour, she bought another 2.25 kg of it.
How much flour did she have?
 $3.75 + 2.25 = 6 \text{ kg}$
- 3) Ahmed runs a distance of 2.35 km per day, What is the distance that he run in 10 days ?
 $2.35 \times 10 = 23.5 \text{ km}$
- 4) Samy works as a plumber. He has 16.4 meters of copper pipe that he needs to cut into 4 equal sized smaller pipes. How long will each pipe be?
 $16.4 \div 4 = 4.1 \text{ meters}$

انتهت الاسئلة