EL-MOASSER

2024

Mathematics

By a group of supervisors

General Revision

إهداء من سلسلة كتب المعاصر

غير مخصصة للبيع

6th PRIMARY

SECOND TERM

General Revision on Unit 8

6th prim.

1 Choose the correct answer.

1. From the opposite model,

1 whole					1 whole				
$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$

$2 \div \frac{1}{5} =$ _____

A. $\frac{2}{5}$ B. $\frac{5}{2}$ C. $\frac{1}{10}$ D. 10

2. The reciprocal of 7 is _____

A. 7 B. 1 C. $\frac{1}{7}$ D. 0

3. $\frac{4}{7} \times$ _____ $= 1$

A. $\frac{4}{7}$ B. $\frac{7}{4}$ C. $\frac{41}{7}$ D. $\frac{7}{41}$

4. $\frac{4}{7} \div$ _____ $= 1$

A. $\frac{4}{7}$ B. $\frac{7}{4}$ C. $\frac{41}{7}$ D. $\frac{7}{41}$

5. _____ $\div \frac{2}{3} = 9$

A. 6 B. $\frac{27}{2}$ C. $8\frac{1}{3}$ D. 12

6. $\frac{2}{3}$ of 6 ◯ $\frac{1}{5}$ of 25

A. < B. = C. >

7. If $807 \times 64 = 51{,}648$, then

a. $516.48 \div 0.64 =$ _____

A. 87 B. 807 C. 8.07 D. 80.7

b. $80.7 \times 6.4 =$ _____

A. 51,648 B. 51.648 C. 51.468 D. 516.48

c. $51{,}648 \div 0.807 =$ _____

A. 6.4 B. 64 C. 64,000 D. 6,400

d. $807 \times 0.064 =$ _____

A. 51.648 B. 51,648 C. 51.468 D. 516.48

e. $51.648 \div 64 =$ _____

A. 807 B. 0.807 C. 8.07 D. 8.70

8. $\frac{4}{5} \div$ _____ $= \frac{2}{3}$

A. $\frac{2}{15}$ B. $1\frac{1}{5}$ C. $\frac{12}{15}$ D. $\frac{5}{6}$

9. From the opposite model,

$\frac{3}{8} \div \frac{7}{10} =$ _____

A. $\frac{15}{28}$ B. $\frac{21}{80}$ C. $\frac{7}{8}$ D. $\frac{3}{10}$

10. $0.751 \times 0.01 =$ _____

A. 7.51 B. 0.751 C. 0.0751 D. 0.00751

11. Any number multiplied by its reciprocal equals _____

A. 3 B. 2 C. 1 D. 0

12. $7 \div \frac{7}{9} = 7 \times$ _____

A. 9 B. $\frac{9}{7}$ C. 7 D. $\frac{49}{9}$

13. $\frac{3}{4} \div 6 =$ _____

A. $\frac{1}{8}$ B. $\frac{18}{4}$ C. $\frac{2}{9}$ D. 8

14. $13.5 \times 4.5 =$ _____

A. 0.675 B. 67.05 C. 6.075 D. 60.75

15. $0.55 \div 0.11 =$ _____ $\div 11$

A. 55 B. 550 C. 5.5 D. 0.055

16. $13.5 \div 4.5 =$ _____

A. 9 B. 7 C. 3 D. 18

17. _____ $\times \frac{5}{7} = \frac{2}{3}$

A. $\frac{15}{14}$ B. $\frac{14}{15}$ C. $\frac{10}{21}$ D. $\frac{7}{10}$

18. 0.43×0.1 ◯ $0.43 \div 0.1$

A. < B. = C. >

19. The reciprocal of $1\frac{3}{5}$ is _____

A. $\frac{5}{8}$ B. $1\frac{2}{5}$ C. $\frac{8}{5}$ D. 1

20. The reciprocal of the number _____ is $1\frac{2}{3}$.

A. $1\frac{3}{2}$ B. $\frac{5}{3}$ C. $\frac{3}{5}$ D. $\frac{3}{2}$

21. $8 \div \frac{6}{7} =$ _____

A. $\frac{48}{7}$ B. $9\frac{1}{3}$ C. $\frac{8}{7}$ D. $9\frac{2}{3}$

22. $\frac{3}{8}$ of $\frac{1}{3} =$ _____

A. $\frac{1}{8}$ B. 8 C. $\frac{3}{11}$ D. $\frac{9}{8}$

2 Complete the following.

1. The reciprocal of 1 is _____

2. From the opposite model,

$3 \div \frac{2}{5} =$ _____

1 whole					1 whole					1 whole				
$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$

3. $\frac{2}{5}$ of $35 =$ _____

4. $\frac{2}{5} \div \frac{4}{15} =$ _____

5. $\frac{4}{9} \times$ _____ $= \frac{1}{6}$

6. If $4.902 \div 0.86 = 5.7$, then
   a. $57 \times 86 =$ _____ b. $5.7 \times 8.6 =$ _____
   c. $0.57 \times 0.86 =$ _____ d. $4{,}902 \div 86 =$ _____

7. The number _____ has no reciprocal.

8. $0.8 \times 0.2 =$ _____ and $0.8 \div 0.2 =$ _____

9. _____ $\div 2.15 = 12{,}000 \div 215$

10. The number of $\frac{4}{7}$'s in 28 is _____

11. Half of $\frac{3}{5}$ is _____

12. From the opposite model,

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

$\frac{2}{3} \div \frac{3}{4} =$ _____

13. If $\frac{2}{7} \times m = \frac{2}{3}$, then $m =$ _____

14. If $\frac{2}{7} \div m = \frac{2}{3}$, then $m =$ _____

3 Answer the following.

1. A box of table tennis balls weighs $\frac{5}{3}$ of a kg. If each ball weighs $\frac{5}{27}$ of a kg. **how many balls are there in the box ?**

2. If the price of one meter of cloth is 36.5 L.E. **Find the price of 3.5 meters.**

3. Ali has 30 liters of juice. He distributed them into small bottles of $\frac{3}{4}$ liter each. **How many bottles did he use ?**

4. Nora bought 8 books for 361.6 L.E. **What is the price of each book ?**

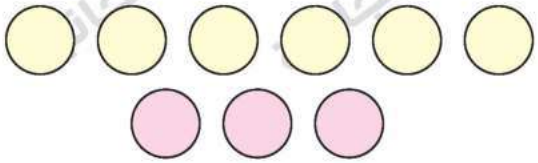
5. Use model to divide, then write the quotient.
   a. $3 \div \frac{2}{3}$
   b. $\frac{1}{3} \div 2$
   c. $\frac{4}{5} \div \frac{3}{4}$

General Revision on Unit 9

6th prim.

1 Choose the correct answer.

1. The ratio between yellow circles and red circles in simplest form is _____



A. 3 to 1 B. $\frac{1}{2}$ C. 3 : 6 D. 2 to 1

2. If $\frac{a}{b} = \frac{c}{d}$, then which of the following is true ?

A. $a \times b = c \times d$ B. $a \times c = b \times d$ C. $c \times b = a \times d$ D. $a \times d = b \times d$

3. If $\frac{3}{5}$ is equivalent to $\frac{9}{x+6}$, then x = _____

A. 15 B. 9 C. 21 D. 5

4. The opposite table shows the ratio between boys and girls, then :

Boys	Girls	Total
4	3	A
B	C	98

a. The value of A = _____

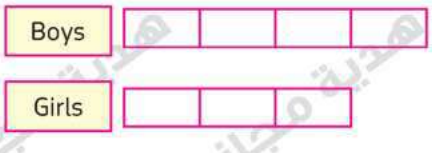
A. 7 B. 12

C. 1 D. $\frac{4}{3}$

b. The value of B – C = _____

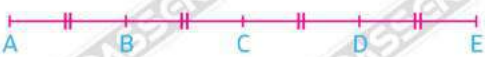
A. 1 B. 14 C. 56 D. 42

5. The opposite tape diagram represents the ratio between boys and girls.
If the difference between them is 7, then the number of boys is _____



A. 49 B. 7 C. 21 D. 28

6. In the opposite figure :



BC : AE = _____

A. $\frac{2}{5}$ B. $\frac{1}{4}$ C. $\frac{1}{2}$ D. $\frac{2}{3}$

7. The ratio between two sides of an equilateral triangle is _____

A. 1 : 1 B. 1 : 2 C. 1 : 3 D. 3 : 1

8. Which of the ratios in each pair are equivalent ?

A. $\frac{1}{2}$ and $\frac{2}{6}$ B. $\frac{8}{6}$ and $\frac{12}{15}$ C. $\frac{5}{15}$ and $\frac{7}{17}$ D. $\frac{6}{9}$ and $\frac{10}{15}$

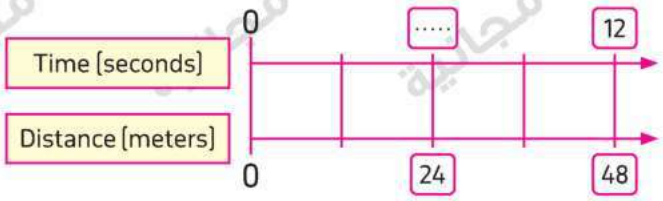
9. Souzan bought 2 kg of orange for 30 L.E. How much money will she pay to buy 3 kg ?

A. 15 B. 20 C. 45 D. 75

10. If the ratio between two numbers is 2 : 3 and the first number is 12, then the second number is _____

A. 18 B. 8 C. 36 D. 13

11. The missing number in the opposite double number line is _____



A. 2 B. 3

C. 4 D. 6

12. The next ratio of 5 : 7 , 10 : 14 , 20 : 28 , _____

A. $\frac{30}{56}$ B. $\frac{25}{40}$ C. $\frac{40}{56}$ D. $\frac{56}{40}$

13. If $\frac{X}{3} = \frac{27}{X}$, where X is a natural number, then X = _____

A. 81 B. 27 C. 9 D. 3

14. If $\frac{4}{X}$ is equivalent to $\frac{16}{20}$, then X – 4 = _____

A. 1 B. 5 C. 16 D. 12

15. If 1 : y = 0.5 , then y = _____

A. 2 B. 3 C. 4 D. 5

16. To find the simplest form of the ratio 20 : 30, we divide the two terms by _____

A. 5 B. 2 C. 10 D. 20

17. Habiba has 10 pencils, 15 pens and 12 notebooks. Which statement is NOT true ?

A. The ratio of pencils to pens is 2 : 3

B. The ratio of pens to notebooks is 5 : 4

C. The ratio of notebooks to pencils is 6 : 5

D. The ratio of pens to pencils is 5 : 6

18. Which of the following comparisons is showing a ratio ?

A. Four students like music than arts.

B. Four more students like music than arts.

C. Fewer students like music than arts.

D. For every student who likes music, Four students like arts.

19. Which ratio of the following equals to a seventh ?

A. $\frac{3}{15}$ B. $\frac{2}{10}$ C. $\frac{2}{14}$ D. $\frac{7}{21}$

20. If 3 a = 5 b , then a : b = _____ : _____

A. 3 : 5 B. 3 : 8 C. 8 : 3 D. 5 : 3

2 Complete the following.

1. 200 : 250 = _____ (in simplest form)

2. In the ratio 7 : 8 , the first term is _____

3. If the ratio between boys and girls is 3 : 2 , then the ratio between girls to boys is _____ to _____

4. The ratio between a and b is 3 : 4 and a + b = 28 then b = _____

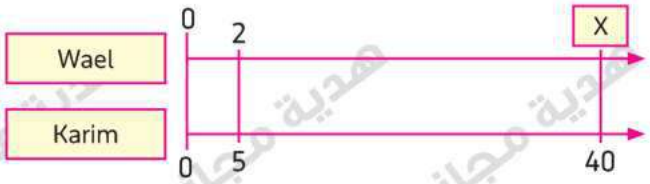
5. $\frac{\square}{4} = 3$

6. From the opposite equivalent ratios,
c + d = _____

3	15	d
5	c	15

7. The opposite tape diagram represents the ratio _____ : _____

8. The opposite double number line represents the ratio between the money with Wael and Karim, If Karim has 40 L.E., then Wael has _____ L.E.



9. If $\frac{3}{X} = \frac{1}{2}$, then X = _____

3 Answer the following.

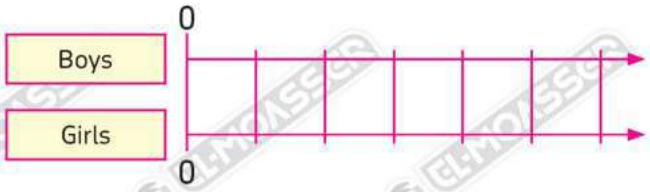
1. If Mostafa has 60 L.E. and Ali has 30 L.E. Find :
   - **a.** The ratio between what Mostafa has and what Ali has in simplest form.
   - **b.** The ratio between what Ali has and the total sum of money in simplest form.

2. Complete the table for a ratio 6 cats and 5 rabbits.

Total	Cat	Rabbit
(B)	(A)	5
(D)	30	(C)
88	(E)	(F)

3. Sameh bought 4 kg of banana, he paid 60 L.E. **How much money will he pay to buy 6 kg ?**

4. If the ratio between the number of boys to the number of girls is 3 : 4 and the total number of boys and girls is 42 pupils, then find.
   - **a.** The number of boys.
   - **b.** The difference between them.



5. If the ratio between the price of a T-shirt and the price of a trousers is 2 : 3 and the difference between then is 100 L.E. find.
   - **a.** The price of the trousers.
   - **b.** The sum of prices of both.

6. Find the value of X in each of the following.
   - **a.** $\frac{35}{40} = \frac{X}{8}$
   - **b.** $\frac{X+1}{9} = \frac{64}{72}$
   - **c.** $\frac{4}{X-2} = \frac{12}{15}$
   - **d.** $\frac{X}{32} = \frac{14}{16}$

General Revision on Unit 10

6th prim.

1 Choose the correct answer.

1. 5 : 20 = _____ %

A. 50 B. 25 C. 20 D. 5

2. Which of the following is a unit rate ?

A. 50 L.E. per 4 kg. B. 2 liters for one bottle.

C. 4 spoons of sugar for 2 cups. D. 100 km per 5 hours.

3. 2.4 L × _____ = 2,400 mL

A. $\frac{1\text{ mL}}{1{,}000\text{ L}}$ B. $\frac{1{,}000\text{ L}}{1\text{ mL}}$ C. $\frac{1\text{ L}}{1{,}000\text{ mL}}$ D. $\frac{1{,}000\text{ mL}}{1\text{ L}}$

4. From the opposite table,
the value of the unknown = _____

Whole	Part	Percent
Unknown	40	10%

A. 4 B. 400

C. 100 D. 140

5. 120 m per min = _____ cm per sec.

A. 1,200 B. 200 C. 720 D. 12,000

6. If the price of a T.V. set is 16,000 L.E., then $\frac{1}{2}$ % of it's price equals _____

A. 160 B. 80 C. 8,000 D. 800

7. By using the opposite double number line,
the unit rate is _____

A. 2 hours per km B. 300 km per 2 hours

C. 150 km per 2 hours D. 150 km per hour

8. 35% of 70 ◯ 70% of 35

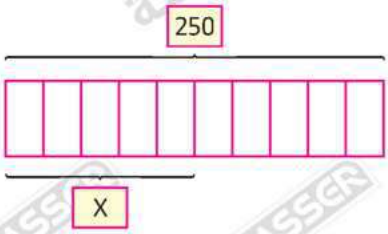
A. < B. = C. >

9. A car consumes $\frac{1}{7}$ liter of benzen to cover 1 km, then it covers _____ km per liter.

A. 1 **B.** 7 **C.** 10 **D.** 70

10. From the opposite tape diagram,

X = _____



A. 250 **B.** 100

C. 125 **D.** 25

11. 10% of 36 kg = _____ gram.

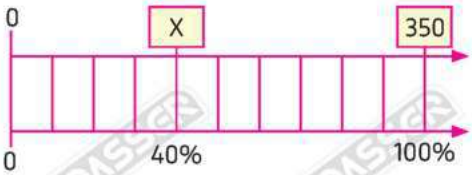
A. 1.8 **B.** 3.6 **C.** 360 **D.** 3,600

12. Which of the following is NOT a conversion factor ?

A. 1 min = 60 sec **B.** $\frac{1{,}000\text{ mL}}{1\text{ L}}$ **C.** $\frac{1\text{ year}}{12\text{ months}}$ **D.** $\frac{1{,}000\text{ km}}{1\text{ m}}$

13. From the opposite double number line,

X = _____



A. 35 **B.** 140

C. 70 **D.** 175

14. Which of the following is the best buy ?

A. 36 L.E. for 6 kg **B.** $\frac{1}{5}$ kg per L.E.

C. 3 kg for 21 L.E. **D.** $\frac{1}{2}$ kg per L.E.

15. If the price of a mobile is 3,000 L.E. and it has a discount 15%, then the discount is _____ L.E.

A. 150 **B.** 300 **C.** 450 **D.** 750

16. 1 – 30% = _____

A. 70 **B.** $\frac{7}{10}$ **C.** 29% **D.** 0.07

17. The percent of girls in a school is 54%, then the percent of boys is _____ %

A. 56 B. 0.46 C. 4.6 D. 46

18. Sameh ate 65% of a pizza, so he ate _____ half the pizza.

A. exactly B. more than C. less than

19. $\frac{25\text{ km}}{1\text{ hr}} = \frac{\text{_____ m}}{1\text{ hr}}$

A. 250 B. 2,500 C. 25,000 D. 250,000

20. 100% of 50 L.E. = _____ L.E.

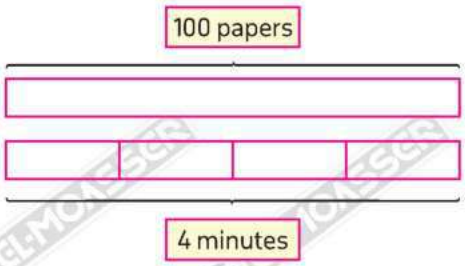
A. 5 B. 10 C. 25 D. 50

21. 25% of a number= _____ % of half of the same number.

A. 12.5 B. 25 C. 50 D. 75

2 Complete the following.

1. From the opposite tape diagram, the unit rate of the printer is _____ papers per min.



2. 3,600 seconds = _____ hour.
3. A man saved 180 L.E. in 3 days, then he saved _____ L.E. per day.
4. 30 % of 50 liters = _____ liters.
5. 24 out of 80 = _____ %
6. The price of 4 notebooks is 36 L.E., then _____ L.E. for each notebook.
7. If the length of a piece of cloth is 648 cm, then its length equals _____ meters.
8. $1\frac{1}{4}$ = _____ %
9. 100 % – [43% + 35%] = _____ %
10. If 7% of the students are absent, then _____ % of them are present.
11. If $\frac{X}{5}$ = 60 %, then X = _____

12. From the opposite table, the value of the unknown = _____

Whole	Part	Percent
570	Unknown	20%

13. $10\frac{1}{2}\% = 10\% +$ _____ $\times 1\%$

14. 560 L.E. weekly = _____ L.E. daily.

15. If the price of 2 kg of cheese is 400 pounds, then the price of 3 kg is _____ pounds.

16. 150 m per min = _____ m per hour.

17. $55\% = \frac{\_\_\_}{20}$

18. If 25 % of a number is 125, then the number is _____

19. 5 % of 250 = 10% of _____

20. The percentage is a ratio its _____

21. $\frac{0.048 \text{ km}}{1 \text{ min.}} = \frac{\_\_\_ \text{ m}}{\_\_\_ \text{ hr}}$

22. 10% of a kilometer = _____ m.

3 Answer the following.

1. Which is the longest : 4.52 m or 400 cm ?

2. The number of children in a nursery is 60 , if 40 % of them are vaccinated. **What is the number of the non-vaccinated children in this nursery ?**

3. The price of a T.V. set is 20,000 L.E. and the sales tax on the T.V. set is 15 %. **What is the price of the T.V. set after adding the tax ?**

4. If 3 oranges are used to get 2 cups of juice. **How many oranges are needed to get 6 cups of orange juice ?**

5. On most summer days, camels drink about 20,000 milliliters of water. **How many liters of water is that ?**

6. In a math exam, Omar got 70 % and Fares got 30 marks out of 50. **Find the ratio between the marks of Fares and Omar in simplest form.**

General Revision on Unit 11

6th prim.

1 Choose the correct answer.

1. The image of the point $(3, -4)$ by reflection across the y-axis is the point _____

   A. $(3, 4)$ B. $(-3, 4)$

   C. $(3, -4)$ D. $(-3, -4)$

2. The point A is located 2 spaces up from the origin and 3 spaces to the right. What ordered pair represents the point A?

   A. $(2, 3)$ B. $(-2, 3)$

   C. $(3, 2)$ D. $(2, -3)$

3. If $A(-3, 1)$ and $C(0, -2)$ and $\overline{AB} \perp \overline{BC}$, then the point B is _____

   A. $(0, 0)$ B. $(-3, -2)$

   C. $(-2, 0)$ D. $(-4, -2)$

4. From the opposite number line, the distance between A and B is _____ units.

   A. 2 B. 4

   C. 6 D. -6

5. The point $(-2, -\frac{1}{2})$ lies in _____ quadrant.

   A. 1^{st} B. 2^{nd}

   C. 3^{rd} D. 4^{th}

6. If $P(2, 0)$, $Q(0, 1)$, $R(-2, 0)$ and $S(0, -2)$ are plotted on the coordinate plane, then the points on the x-axis are _____

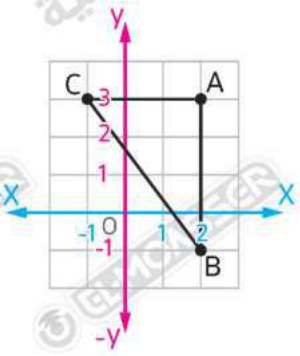
   A. P and Q B. Q and S

   C. Q and R D. R and P

7. If the point A $(-2,-3)$ moved 2 units to the right the 3 units up, then A will be _____

A. $(-4,-6)$ B. $(0,-6)$ C. $(-4,0)$ D. $(0,0)$

8. From the opposite figure.



a. The Coordinates of the point B are _____

A. $(2,3)$ B. $(2,-1)$

C. $(-1,2)$ D. $(2,-2)$

b. The distance between the point C and the point A is _____ units.

A. 4 B. 3 C. -4 D. -3

c. The distance between the point C and x-axis is _____ unit(s).

A. 1 B. 2 C. 3 D. 4

d. The point _____ is the nearest point to y-axis.

A. $(2,3)$ B. $(2,-1)$ C. $(-1,3)$

e. The image of the point A by reflection across x-axis is _____

A. $(2,3)$ B. $(-2,3)$ C. $(-2,-3)$ D. $(2,-3)$

f. The type of the triangle ABC is _____

A. right triangle. B. acute triangle. C. obtuse triangle.

g. If the point C moved 4 units down and 3 units right then C will be _____

A. $(2,0)$ B. $(-5,2)$ C. $(3,6)$ D. $(2,-1)$

h. The point D which makes CABD is a rectangle is _____

A. $(-1,0)$ B. $(4,-1)$ C. $(-1,-1)$ D. $(0,0)$

i. The point D lies in _____ quadrant.

A. first B. second C. third D. fourth

9. In the following figure, if AB = 8 units, then x = _____

A. 8 B. 10.5 C. 6.5 D. 5.5

10. What is the distance between the point C (2 , 5) and its image by reflection across y-axis ?

A. 2 units B. 4 units C. 5 units D. 10 units

2 Complete the following.

1. If the y-coordinate of a point is zero, then this point lies on _____ axis.

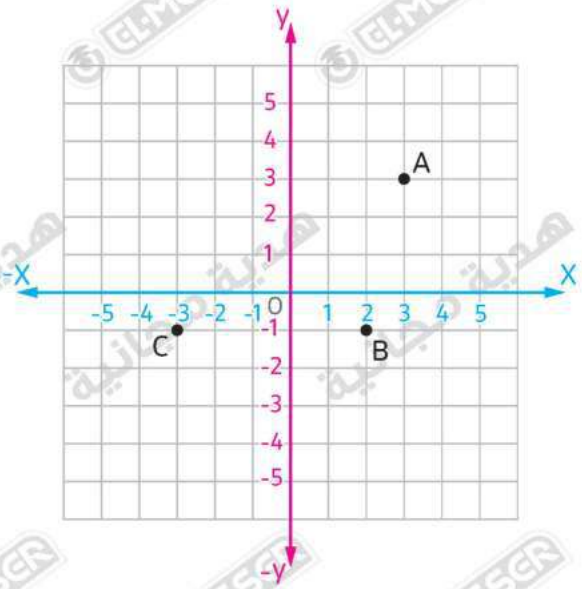
2. The point $(-2\frac{1}{4}, 2\frac{1}{4})$ lies in the _____ quadrant.

3. The distance between the two points (– 2 , 1) and (4 , 1) is _____ units.

4. If the x-coordinate of a point is positive and y-coordinate is negative, then the point lies in the _____ quadrant.

5. The image of the point (0 , 3) by reflection across x-axis is _____

6. From the opposite figure



a. The coordinates of the points

A (_____ , _____)

B (_____ , _____)

C (_____ , _____)

b. The distance between the point C and the point B is _____ units.

c. The image of the point C by reflection across x-axis is _____

d. If we moved the point A 5 units left and 3 units down, then A will be (_____ , _____)

e. The distance between the point B and x-axis is _____ unit.

f. The type of the triangle ABC is _____ – angled triangle.

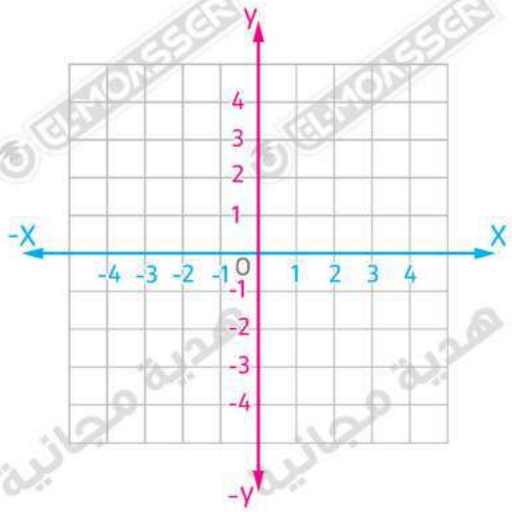
g. The coordinates of the point D which makes ABCD is a parallelogram are (_____ , _____)

h. The image of the point D by reflection across y-axis is _____

3 Answer the following.

1. Graph the points A (1 , 3) and B (–3 , 3).

What are the coordinates of C and D if ABCD is a square and D lies in 4th quadrant ?

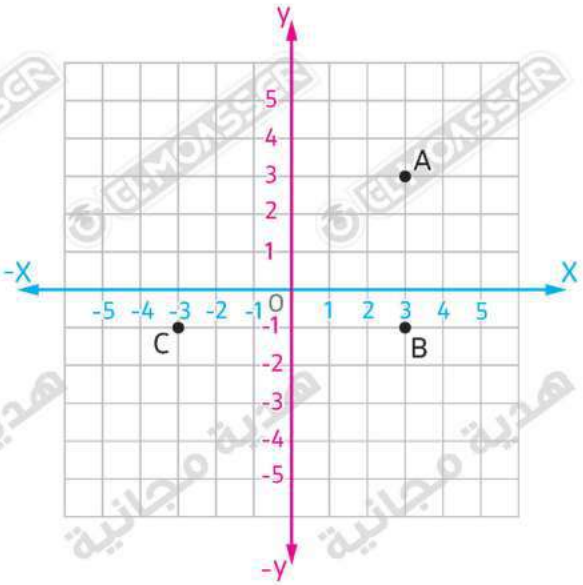


2. a. Write the ordered pairs

A (_____ , _____) lies in _____ quadrant

B (_____ , _____) lies in _____ quadrant

C (_____ , _____) lies in _____ quadrant



b. The name of the figure ABC is _____

c. The point D is (_____ , _____) such that ABCD is a rectangle.

d. Find the length of $\overline{AB}$ and $\overline{BC}$

e. Find the perimeter and the area of the rectangle.

3. Eman walks from a park located at (–2 , –3) to her house at (1 , –3). **How far did she walk ?**

General Revision on Unit 12

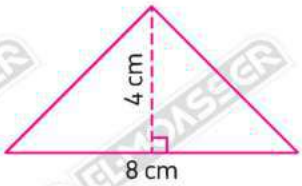
6th prim.

1 Choose the correct answer.

1. Area of a parallelogram = _____

A. $\frac{b}{2} \times h$ B. $b \times \frac{h}{2}$ C. $\frac{1}{2} \times b \times h$ D. $b \times h$

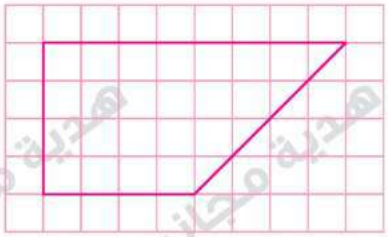
2. The area of the opposite triangle = _____ cm^2



A. 12 B. 32

C. 24 D. 16

3. The area of the opposite trapezium = _____ square units.



A. 12 B. 32

C. 24 D. 16

4. The height of a rhombus whose area is 56 cm^2 and its side length 7 cm is _____ cm.

A. 8 B. 49 C. 63 D. 392

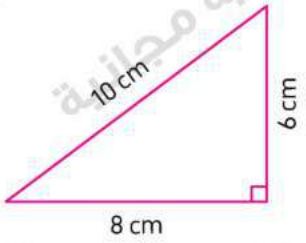
5. If the two base lengths of a parallelogram are 2.6 m and 1.3 m and its greater height is 2.4 m, then its area equals _____ m^2

A. 3.12 B. 1.56 C. 6.24 D. 3.12

6. The area of a square of side length 2.5 mm is _____ mm^2

A. 10 B. 3.125 C. 6.25 D. 5

7. The area of the opposite triangle is _____



A. 24 cm^2 B. 30 cm^2

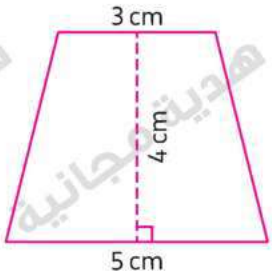
C. 40 cm^2 D. 12 cm^2

8. A parallelogram with area 12 cm^2 and base length 5 cm, then its corresponding height is _____ cm

A. 60 B. 30 C. 7 D. 2.4

9. The area of the opposite trapezium

= _____ cm^2

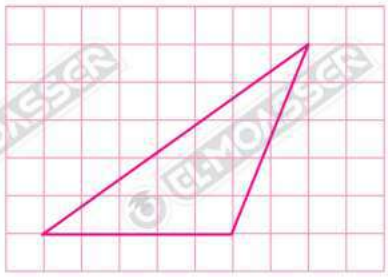


A. 12 **B.** 20

C. 16 **D.** 60

10. The area of the opposite triangle

equals _____ square units.



A. 25

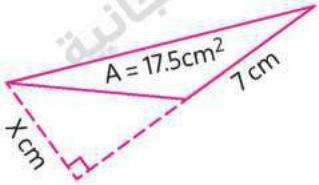
B. 12.5

C. 9

D. 17.5

11. From the opposite figure,

the value of X = _____ cm



A. 10.5 **B.** 2.5

C. 24.5 **D.** 5

12. The area of the rhombus whose perimeter is 36 cm and its height 6.2 cm

is _____ cm^2

A. 223.2 **B.** 111.6 **C.** 55.8 **D.** 27.9

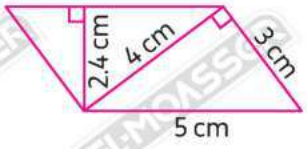
13. If the perimeter of an equilateral triangle is 18 cm and its height is 5.2 cm, then its area

= _____ cm^2

A. 31.2 **B.** 93.6 **C.** 46.8 **D.** 15.6

14. Which of the following expressions does represent

the area of the opposite parallelogram ?

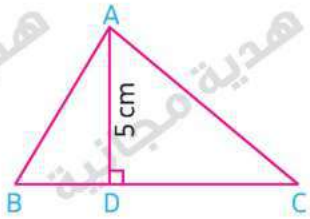


A. $\frac{1}{2} \times 3 \times 4$ **B.** 3×5

C. 2.4×4 **D.** 5×2.4

15. In the opposite figure :

ABC is a triangle in which $\overline{AD} \perp \overline{BC}$, AD = 5 cm, area of $\Delta ABC = 15\ cm^2$, then BC = _____ cm.

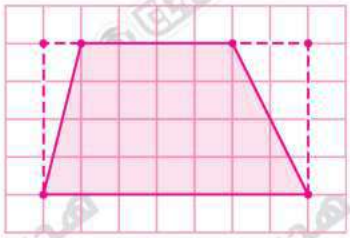


A. 12 **B.** 9

C. 6 **D.** 3

16. Afaf used subtraction to correctly find the area of this trapezium.

Which expression would represent what she did ?



A. $(7 \times 4) - (4 \times 1) - (4 \times 2)$

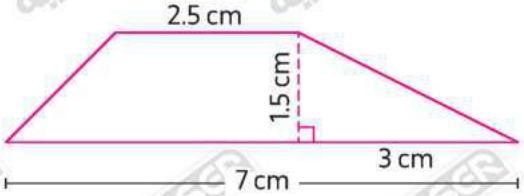
B. $(7 + 4) - \left[\frac{1}{2}(4 \times 1)\right] - \left[\frac{1}{2}(4 \times 2)\right]$

C. $(7 \times 4) - \left[\frac{1}{2}(4 \times 1)\right] - \left[\frac{1}{2}(4 \times 2)\right]$

D. $(4 \times 4) - \left[\frac{1}{2}(4 \times 1)\right] - \left[\frac{1}{2}(4 \times 2)\right]$

17. Area of the opposite trapezium

= _____ cm^2



A. 7 **B.** 10

C. 13 **D.** $7\frac{1}{8}$

18. If a base length of a parallelogram is 10 m and its corresponding height is 4 m less than it, then the area of the parallelogram is _____ m^2.

A. 20 **B.** 40 **C.** 60 **D.** 100

19. A rhombus of side length 10 cm and the ratio between its height and its side length is 4 : 5 , then the area of the rhombus is _____ cm^2.

A. 50 **B.** 60 **C.** 80 **D.** 100

20. If the dimensions of a parallelogram are 10 cm and 8 cm and its greater height is 5 cm, then the length of its smaller height is _____ cm.

A. 4 **B.** 5 **C.** 6 **D.** 7

2 Complete the following.

1. Area of triangle = _____

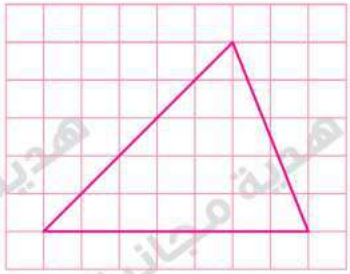
2. The area of the rhombus = _____ × height.

3. The two base lengths of a parallelogram are 13 cm and 26 cm and its smaller height is 12 cm, then it's greater height is _____ cm.

4. If the side length of a rhombus is 9 cm and it's height is 8 cm, then its area is _____ cm^2

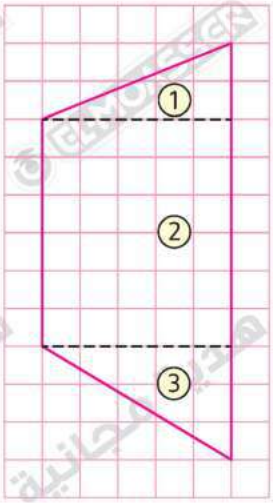
5. The area of a square with side length 2.4 cm is _____ mm^2

6. The area of the opposite triangle is _____ square units.



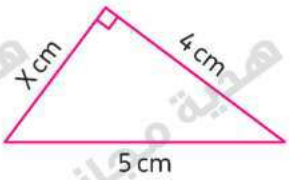
7. If ABC is a right-angled triangle at C, and AC = 7 cm, BC = 8 cm, then its area = _____ cm^2

8. The opposite figure is a trapezium decomposed into 3 figures.
   - **a.** The area of figure ① = _____ square units.
   - **b.** The area of figure ② = _____ square units.
   - **c.** The area of figure ③ = _____ square units.
   - **d.** The area of the trapezium = _____ square units.

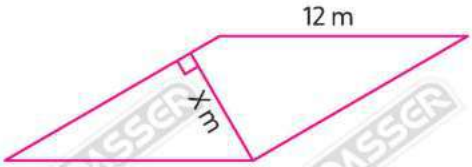


9. If the area of the opposite parallelogram is 12 cm^2, then the value of X is _____

10. If the area of the opposite triangle is 6 cm^2 , then the value of X is _____



11. If the area of the opposite rhombus is 72 m^2 , then the value of X is _____



3 Answer the following.

1. **Which one is greater in area ?**

   A triangle with base length 10 cm and its corresponding height 5.4 cm or a rhombus of side length 12 cm and a height 4.55 cm.

2. A parallelogram of base length 26 cm and the ratio between its base length and its height is 13 : 6

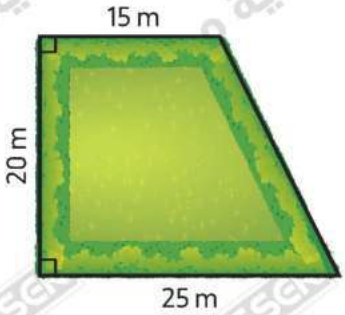
   Calculate the area of the parallelogram.

3. If the ratio between the corresponding height and the base length of a triangle is 4 : 5 , and the difference between them is 10 cm. **Find the area of the triangle.**

4. **In the opposite figure :**

   A piece of land in the form of a trapezium, if we want to fertilize this plot with fertilizer, one bag of fertilizer is enough for an area of 100 m^2

   How many bags of fertilizer needed to fertilize this piece of land ?



General Revision on Unit 13

6th prim.

1 Choose the correct answer.

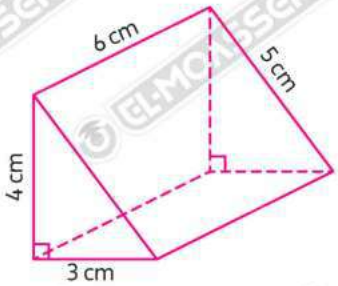
1. Which of following expressions represents the surface area of a cube with side length S ?

A. S^3 B. $6S^2$ C. $6S^3$ D. $2S + 4S^2$

2. The surface area of a cuboid of dimensions 1.3 cm, 1.9 cm and 4 cm is _____ cm^2.

A. 9.88 B. 19.76 C. 14.4 D. 30.54

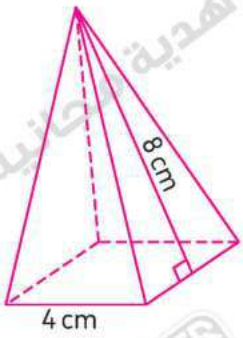
3. The surface area of the opposite triangular prism is _____ cm^2.



A. 18 B. 66

C. 84 D. 360

4. Which of the following expressions represents the surface area of the opposite square pyramid ?



A. $(4 \times 4) + [4 \times (\frac{1}{2} \times 4 \times 8)]$

B. $(8 \times 8) + [4 \times (\frac{1}{2} \times 8 \times 4)]$

C. $(4 \times 8) + [4 \times (\frac{1}{2} \times 4 \times 8)]$

D. $(4 \times 4) + [4 \times (4 \times 8)]$

5. The volume of the cuboid of dimensions 2.5 m, 1.4 m and 3.4 m is _____ m^3.

A. 7.3 B. 14.6 C. 11.9 D. 33.52

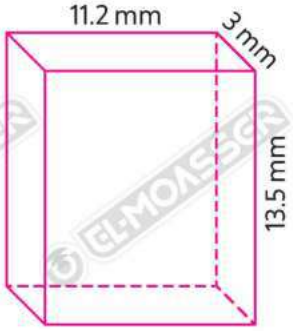
6. A cuboid of volume 250 m^3 , if its width is doubled, then the new volume of the cuboid is _____ m^3.

A. 125 B. 250 C. 500 D. 2,000

7. The side length of the cube which its surface area equals 150 cm^2 equals _____ cm.

A. 5 B. 25 C. 30 D. 6

8. The surface area of the opposite cuboid is _____



A. 453.6 B. 383.4

C. 450.6 D. 225.3

9. Which of the following statements shows the number of faces of square pyramid ?

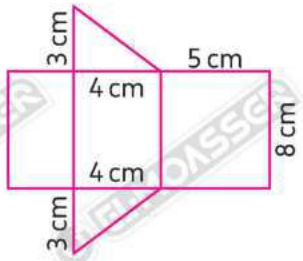
A. 2 triangles , 2 squares **B.** 4 triangles , 2 squares

C. 4 triangles , 1 square **D.** 3 triangles , 1 square

10. The surface area of the opposite triangular prism = _____ cm^2

A. 28 **B.** 35

C. 21 **D.** 108



11. If the volume of cuboid is 60 cm^3 , and two dimensions are doubled, then the new volume is _____ cm^3.

A. 30 **B.** 60 **C.** 120 **D.** 240

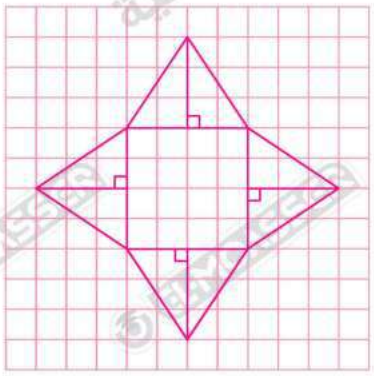
12. The opposite net shows a square pyramid, then its surface area = _____ square units

A. 44

B. 16

C. 24

D. 40



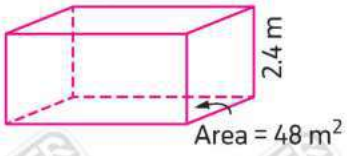
13. Which of the following estimations is suitable for the volume of a cuboid whose dimensions are 7.5 cm, 6.5 cm and 4.5 cm ?

A. 100 cm^3 **B.** 160 cm^3 **C.** 280 cm^3 **D.** 400 cm^3

14. The volume of the opposite cuboid = _____ m^3.

A. 224.2 **B.** 120

C. 115.2 **D.** 84.2



15. The surface area of a cube of side length 7 cm is _____ cm^2.

A. 42 **B.** 49 **C.** 98 **D.** 294

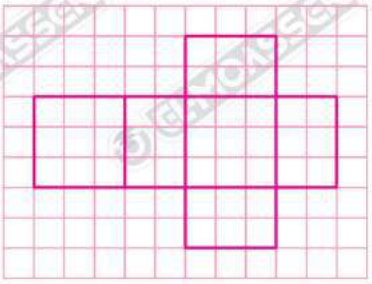
16. The surface area of the square pyramid in which the perimeter of its base is 32 cm and the height of each triangular face is 5 cm equals _____ cm^2.

A. 84 B. 64 C. 144 D. 1,344

17. If the volume of cuboid is 132 cm^3 and its height is 5.5 cm then its base area equals _____

A. 24 cm^2 B. 24 cm. C. 26.4 cm^2 D. 26.4 cm.

18. The surface area of the opposite cuboid equals _____ square units.



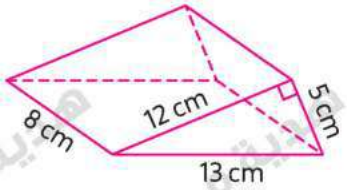
A. 9 B. 24
C. 33 D. 42

19. If the height of a cuboid is doubled, then the ratio between the new volume and the original volume of the cuboid is _____

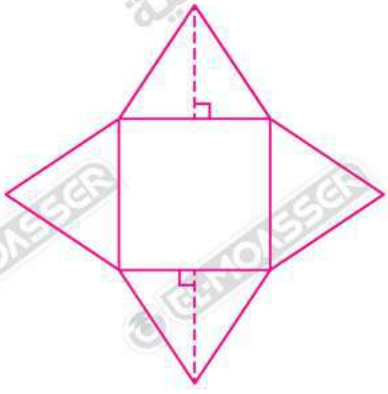
A. 1:2 B. 2:1 C. 1:8 D. 8:1

2 Complete the following.

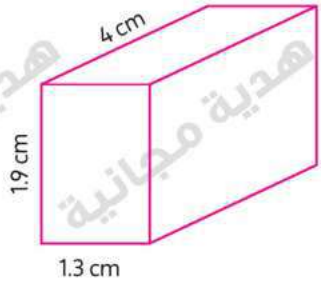
1. Volume of cuboid = _____ × height
2. The volume of the cuboid = _____ × _____ × _____
3. The triangular prism has _____ triangular faces and _____ rectangular faces.
4. If the perimeter of one face of a cube is 28 cm, then its surface area equals _____ cm^2.
5. In the opposite triangular prism :
   a. The area of the triangular faces = _____ cm^2.
   b. The area of the rectangular faces = _____ cm^2.
   c. The surface area of the triangular prism = _____ cm^2.



6. In the opposite pyramid :
   the perimeter of the square is 36 cm and the height of the triangular face is 6 cm, then
   a. the side length of the square base = _____
   b. the area of the square base = _____
   c. the area of the triangular faces = _____
   d. the surface area of the pyramid = _____



7. In the opposite cuboid :



If the dimensions are 1.3 cm , 1.9 cm and 4 cm , then

a. the surface area of the cuboid = _____

b. the volume of the cuboid = _____

c. if we trible one dimension, then the new volume = _____

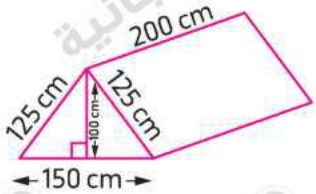
d. if we double two dimensions, then the new volume = _____

8. If the sum of 4 edges in a cube is 16 cm, then its surface area equals _____

3 Answer the following.

1. Shahd is wrapping a gift. she places it in a box 10 cm long, 4 cm wide and 10 cm high.
   if Shahd bought a roll of wrapping paper that is 280 cm^2.
   Did she buy enough paper to wrap the gift ?

2. Ahmed used wood to build a house for his dog in the shape of a triangular prism as the opposite figure. Calculate its surface area.



3. Find the surface area of the opposite pyramid.

4. A cuboid with dimensions 15.2 m , 8.5 m and 5 m
   a. Find the volume of the cuboid.
   b. If the three dimensions are doubled, find the new volume.

EL-MOASSER

2024

Mathematics

Answers

6th PRIMARY

SECOND TERM

Answers of General Revision

6th prim.

Unit 8

1 1. D 2. C 3. B
4. A 5. A 6. A
7. ⓐ B ⓑ D ⓒ C
ⓓ A ⓔ B 8. B
9. A 10. D 11. C
12. B 13. A 14. D
15. A 16. C 17. B
18. A 19. A 20. C
21. B 22. A

2 1. 1 2. $7\frac{1}{2}$ 3. 14
4. $\frac{3}{2}$ 5. $\frac{3}{8}$ 6. ⓐ 4,902
ⓑ 49.02 ⓒ 0.4902 ⓓ 57
7. zero 8. 0.16 , 4 9. 120
10. 49 11. $\frac{3}{10}$ 12. $\frac{8}{9}$
13. $\frac{7}{3}$ 14. $\frac{3}{7}$

3 1. The number of balls $= \frac{5}{3} \div \frac{5}{27}$

$= \frac{\cancel{5}^{1}}{\cancel{3}_{1}} \times \frac{\cancel{27}^{9}}{\cancel{5}_{1}}$

= 9 balls.

2. The price = 36.5 × 3.5 = 127.75 L.E.

3. The number of bottles $= 30 \div \frac{3}{4}$

$= \cancel{30}^{10} \times \frac{4}{\cancel{3}_{1}}$

= 40 bottles.

4. The price of each book = 361.6 ÷ 8

= 45.2 L.E.

5. ⓐ

1 whole			1 whole			1 whole		
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

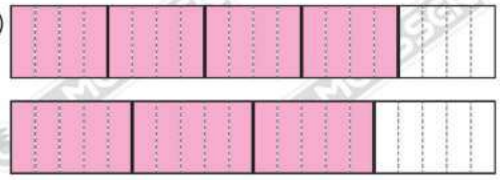
So, $3 \div \frac{2}{3} = 4\frac{1}{2}$

ⓑ

$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

So, $\frac{1}{3} \div 2 = \frac{1}{6}$

ⓒ



So, $\frac{4}{5} \div \frac{3}{4} = \frac{16}{15}$

Unit 9

1 1. D 2. C 3. B
4. ⓐ A ⓑ B 5. D
6. B 7. A 8. D
9. C 10. A 11. D
12. C 13. C 14. A
15. A 16. C 17. D
18. D 19. C 20. D

2 **1.** 4 : 5 **2.** 7 **3.** 2 to 3
4. 16 **5.** 12 **6.** 34
7. 4 : 5 **8.** 16 **9.** 6

3 **1.** ⓐ 60 : 30 [÷ 10]
6 : 3 [÷ 3]
2 : 1
ⓑ 30 : 90 [÷ 10]
3 : 9 [÷ 3]
1 : 3

2. A = 6 B = 11 C = 25
D = 55 E = 48 F = 40

3. 90 L.E.

4. ⓐ 18 ⓑ 6

5. ⓐ 300 L.E. ⓑ 500 L.E.

6. ⓐ 7 ⓑ 7
ⓒ 7 ⓓ 28

Unit 10

1 **1.** B **2.** B **3.** D
4. B **5.** B **6.** B
7. D **8.** B **9.** B
10. C **11.** D **12.** D
13. B **14.** D **15.** C
16. B **17.** D **18.** B
19. C **20.** D **21.** C

2 **1.** 25 **2.** 1 **3.** 60
4. 15 **5.** 30 **6.** 9
7. 6.48 **8.** 125 **9.** 22
10. 93 **11.** 3 **12.** 114
13. $\frac{1}{2}$ **14.** 80 **15.** 600
16. 9,000 **17.** 11 **18.** 500
19. 125 **20.** second term is 100
21. 2,880 **22.** 100

3 **1.** 4.52 m

2. The number of vaccinated children
$= 60 \times 40\ \% = 60 \times \frac{40}{100}$
$= 24$ children

The number of non-vaccinated children $= 60 - 24 = 36$ children

3. $10\% \times 20{,}000 = 2{,}000$
$5\% = \frac{1}{2} \times 10\% = \frac{1}{2} \times 2{,}000 = 1{,}000$
The sales tex = 15 % of 20,000
= 2,000 + 1,000
= 3,000 L.E.

The price of the T.V. = 20,000 + 3,000
= 23,000 L.E.

4. Unit rate $= \frac{3}{2} = 1.5$ oranges per cup

Number of oranges $= 6 \times 1.5$
= 9 oranges

5. 20 L.

6. What Omar got = $50 \times 70\%$

$= 50 \times \frac{70}{100} = 35$ marks

The ratio = 30 : 35 [÷ 5] = 6 : 7

Unit 11

1 1. D 2. C 3. B

4. C 5. C 6. D

7. D 8. ⓐ B ⓑ B

ⓒ C ⓓ C ⓔ D

ⓕ A ⓖ D ⓗ C

ⓘ C 9. B 10. B

2 1. x 2. second 3. 6

4. fourth 5. (0 , – 3)

6. ⓐ A (3 , 3) , B (2 , – 1) , C (– 3 , – 1)

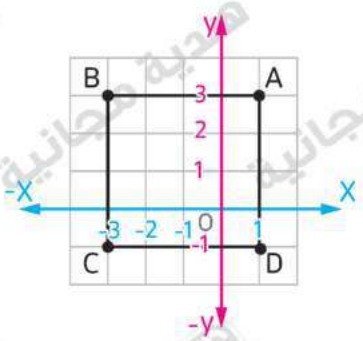
ⓑ 5 ⓒ (– 3 , 1) ⓓ (– 2 , 0)

ⓔ 1 ⓕ obtuse ⓖ (– 2 , 3)

ⓗ (2 , 3)

3 1. C (– 3 , – 1)

D (1 , – 1)



2. ⓐ A (3 , 3) , first

B (3 , – 1) , fourth

C (– 3 , – 1) , third

ⓑ a triangle

ⓒ (– 3 , 3)

ⓓ 4 units , 6 units

ⓔ Perimeter = 20 units , Area

Area = 24 square units

3. What she walked = $|-2| + |1| = 2 + 1$

$= 3$ units

Unit 12

1 1. D 2. D 3. C

4. A 5. A 6. C

7. A 8. D 9. C

10. B 11. D 12. C

13. D 14. D 15. C

16. C 17. D 18. C

19. C 20. A

2 1. $\frac{1}{2} \times b \times h$ 2. base

3. 24 4. 72 5. 576

6. 17.5 7. 28 8. ⓐ 5

ⓑ 30 ⓒ 7.5 ⓓ 42.5

9. 2 10. 3 11. 6

3 1. The area of the triangle = $\frac{1}{2} \times 10 \times 5.4$

$= 27\ cm^2$

The area of the rhombus = 12×4.55

$= 54.6\ cm^2$

The area of the rhombus is greater

2. $\frac{\text{The base length}}{\text{The height}} = \frac{13}{6} = \frac{26}{?}$ (×2)

The height = 6 × 2 = 12 cm

Area = 26 × 12 = 312 cm^2

3.

Each box = 10 , the height = 10 × 4

= 40 cm

and the base length = 10 × 5 = 50 cm

So, the area of the triangle

$= \frac{1}{2} \times 50 \times 40$

= 1,000 cm^2

4. The area of the land

$= [25 \times 20] - [\frac{1}{2} \times 10 \times 20]$

= 500 – 100 = 400 m^2

The number of bags = 400 ÷ 100

= 4 bags

Unit 13

1 **1.** B **2.** D **3.** C

4. A **5.** C **6.** C

7. A **8.** C **9.** C

10. D **11.** D **12.** D

13. C **14.** C **15.** D

16. C **17.** B **18.** D

19. B

2 **1.** base area **2.** l × w × h

3. 2 , 3 **4.** 294 **5.** (a) 60

(b) 240 (c) 300 **6.** (a) 9 cm

(b) 81 cm^2 (c) 108 (d) 189

7. (a) 30.54 cm^2 (b) 9.88 cm^3

(c) 29.64 cm^3 (d) 39.52 cm^3 **8.** 96 cm^2

3 **1.** The surface area of the box

$= 2 [10 \times 4 + 10 \times 10 + 4 \times 10]$

$= 2 [40 + 100 + 40]$

$= 2 \times 180 = 360\ cm^2$

She didn't buy enough paper

2. The surface area =

$[2 \times \frac{1}{2} \times 150 \times 100] + [125 \times 200]$

$+ [125 \times 200] + [150 \times 200]$

$= 15{,}000 + 25{,}000 + 25{,}000 + 30{,}000$

= 95,000 cm^2

3. The area = $[8.6 \times 8.6] +$

$[4 \times \frac{1}{2} \times 8.6 \times 14]$

= 73.96 + 240.8 = 314.76 cm^2

4. (a) The volume = 15.2 × 8.5 × 5

= 646 m^3

(b) The new volume = 646 × 8

= 5,168 m^3