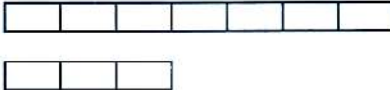
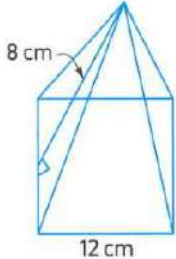
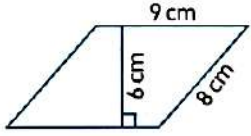
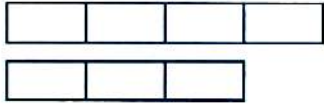
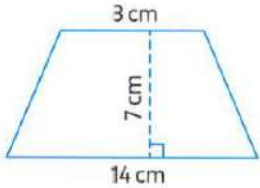
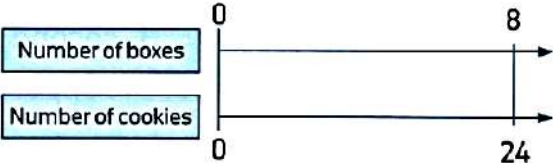


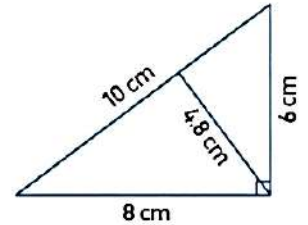
Choose the correct answer:

- 1 The ratio 200 to 350 = _____ [in simplest form]
 A. $\frac{20}{35}$ B. 4:7 C. 7 to 4 D. 5:7
- 2 The volume of a cuboid of base area 28 cm^2 and height 7.4 cm is _____ cm^3
 A. 270.2 B. 207.2 C. 202.7 D. 207.7
- 3 The point M is located 3 units to the right and 5 units up from the origin point, then the ordered pair that represents the point M is _____
 A. (8, 0) B. (3, 5) C. (5, 3) D. (0, 8)
- 4 $3.6 \div 0.12 =$ _____
 A. 30 B. 3 C. 0.3 D. 0.03
- 5 If the percent of boys in a school is 52%, then the percent of girls is _____ %
 A. 52 B. 48 C. 0.48 D. 0.52
- 6 From the opposite model
 $3 \div \frac{1}{4} =$ _____
 A. $\frac{3}{4}$ B. $\frac{4}{3}$ C. $\frac{1}{12}$ D. 12
- | 1 whole | | | | 1 whole | | | | 1 whole | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |
- 7 3.5 cm 25 mm
 A. > B. < C. =
- 8 The tape diagram  represents the ratio _____
 A. 3:6 B. 1:2 C. 7:3 D. $\frac{6}{4}$
- 9 The surface area of the opposite square-based pyramid is _____ cm^2
 A. 360 B. 336
 C. 528 D. 240
- 
- 10 If the ratio between number of oranges and number of bananas is 3:4 and the number of bananas is 20, then the difference between them is _____
 A. 1 B. 5 C. 15 D. 20

11	$\frac{1}{6} \div \frac{1}{3}$ <input type="text"/> $\frac{1}{3}$ A. < B. = C. >	
12	Which of the following is a unit rate ? A. 40 L.E. per 2 kg B. 450 km per 3 hours C. 2 liters per bottle D. 4 spoons of sugar per 2 cups	
13	The area of the opposite parallelogram = _____ cm^2 A. 54 B. 48 C. 72 D. 34	
14	24 % of 36 <input type="text"/> 36 % of 24 A. < B. = C. >	
15	2.5 % of 700 L.E. = _____ L.E. A. $\frac{2}{5}$ B. 70 C. 175 D. 17.5	
16	The height of a rhombus whose area is 100 cm^2 and side length 12.5 cm is _____ cm A. 7 B. 8 C. 9 D. 10	
17	The area of the triangle = _____ A. $\frac{1}{2} bb$ B. $\frac{b}{2} \times h$ C. $\frac{1}{2} hh$ D. $b \times h$	
18	The point which is plotted on y-axis is _____ A. (5, 0) B. (-5, 0) C. (0, -2) D. (-2, -2)	
19	Which of the following is a conversion factor ? A. $\frac{4 \text{ km}}{1 \text{ hour}}$ B. $\frac{60 \text{ min}}{1 \text{ sec}}$ C. $\frac{1 \text{ week}}{7 \text{ days}}$ D. $\frac{1,000 \text{ cm}}{1 \text{ km}}$	
20	If $111 \times 23 = 2553$, then $1.11 \times 2.3 =$ _____ A. 255.3 B. 25.53 C. 2.553 D. 0.2553	
21	$0.453 \times 0.1 =$ _____ A. 0.0543 B. 4.53 C. 0.0453 D. 0.453	
22	Which ratio is equivalent to 75 : 100 ? A. $\frac{7.5}{1}$ B. 100 : 75 C. 140 : 200 D. 3 to 4	
23	The point (3, -1) by reflection across the y-axis is the point _____ A. (-3, 1) B. (-3, -1) C. (3, 1) D. (1, -3)	

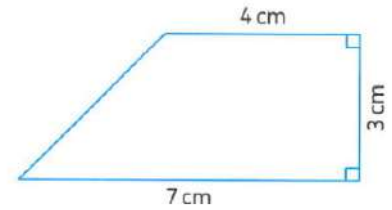
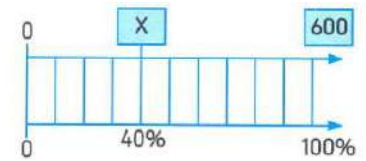
- 24** 54 L.E. for 9 kg , then the cost of 6 kg is _____
 A. 36 B. 9 C. 27 D. 45
- 25** If the ratio between two numbers is 2 : 5 and the smaller number is 20 , then the greater number is _____
 A. 8 B. 30 C. 70 D. 50
- 26** From the opposite equivalent ratios , A + B = _____
 A. 98 B. 97 C. 96 D. 95
- | | | |
|---|----|----|
| 4 | 36 | B |
| 9 | A | 36 |
- 27** The opposite tape diagram represents the ratio _____
 A. 3 : 4 B. 4 : 3
 C. 1 : 3 D. 3 : 5
- 
- 28** A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers _____ km per liter.
 A. 1 B. 5 C. 10 D. 20
- 29** A parallelogram with area 48 cm^2 and base length 6 cm , then it's corresponding height is _____ cm
 A. 9 B. 8 C. 7 D. 8.5
- 30** From the opposite table , the value of the unknown = _____
 A. 270 B. 27
 C. 2,700 D. 2.7
- | Whole | Part | Percent |
|--------|------|---------|
| Unkown | 54 | 20 % |
- 31** The area of the opposite trapezium = _____ cm^2
 A. 56 B. 77
 C. 98 D. 38.5
- 
- 32** There are 24 cookies in 8 boxes , then the number of cookies in 3 boxes using double number line is _____
 A. 3 B. 9
 C. 12 D. 18
- 
- 33** ABCD is a parallelogram of area 200 cm^2 , AB = 20 cm and BC = 40 cm , then the smaller height is _____ cm.
 A. 10 B. 5 C. 160 D. 180

34	The point $(-2, -3)$ lies in the _____ quadrant. A. first B. second C. third D. fourth
35	If $48.36 \div 7.8 = 6.2$, then $4.836 \div 0.78 =$ _____ A. 0.62 B. 6.2 C. 62 D. 620
36	Which expression represents the area of the drawn triangle? A. $\frac{1}{2} \times 6 \times 10$ B. $\frac{1}{2} \times 4.8 \times 8$ C. $\frac{1}{2} \times 6 \times 8$ D. $\frac{1}{2} \times 8 \times 10$
37	The volume of a cuboid of dimensions 12 cm, 9.5 cm and $4\frac{1}{4}$ cm is _____ cm^3 A. 484.5 B. 540 C. 432 D. 480
38	$1\frac{3}{5} =$ _____ % A. 1.6 B. 60 C. 160 D. 16
39	55% <input type="text"/> $\frac{2}{5}$ A. < B. = C. >
40	If the x-coordinate of a point is zero, then the point lies _____ A. in 1 st quadrant B. in 2 nd quadrant C. on x-axis D. on y-axis
41	The point _____ lies in the 1 st quadrant. A. (2, 3) B. (-1, 2) C. (4, -3) D. (-6, -2)
42	The surface area of the cube = _____ A. S^2 B. $S \times S \times S$ C. $6 \times S \times S$ D. $S + S + S$
43	If the ratio between two numbers is 2 : 3 and the first number is 6, then the second number is _____ A. 4 B. 6 C. 9 D. 12
44	The image of the point $(-2, -5)$ by reflection across the x-axis is the point _____ A. $(-2, 5)$ B. $(2, 5)$ C. $(2, -5)$ D. $(-2, -5)$
45	The surface area of the rectangular prism is _____ A. $l + w + h$ B. $l \times w \times h$ C. $2l + 2w + 2h$ D. $2 \times (lw + lh + wh)$
46	25% of a number = 120, then this number = _____ A. 30 B. 2.5 C. 480 D. 360



Complete:

1 $3.4 \times 0.2 = \underline{\hspace{2cm}}$

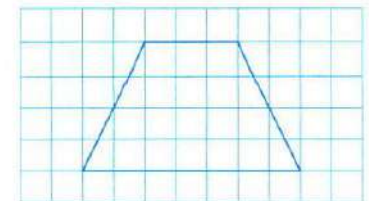
2 The point (4, 7) by reflection across the x-axis is the point $\underline{\hspace{2cm}}$ 3 The area of opposite trapezium = $\underline{\hspace{2cm}}$ cm²4 From the opposite double number line, $x = \underline{\hspace{2cm}}$ 

5 5% of 600 kg = $\underline{\hspace{2cm}}$ kg

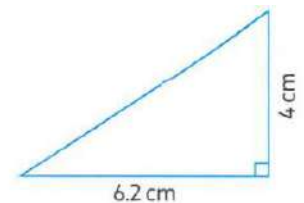
6 $20\% + 50\% = \underline{\hspace{2cm}}$

7 If 3 : 7 is equivalent to 21 : x , then $x = \underline{\hspace{2cm}}$

8 $2.32 \div 0.4 = \underline{\hspace{2cm}} \div 4$

9 The area of the opposite trapezium = $\underline{\hspace{2cm}}$ square units.10 Area of parallelogram = $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$

11 $25\% \div \frac{1}{4} = \underline{\hspace{2cm}}\%$

12 The point (a, 5) lies on the y-axis, then $a = \underline{\hspace{2cm}}$ 13 The area of the opposite triangle = $\underline{\hspace{2cm}}$ cm²

14 2 to 5 = $\underline{\hspace{2cm}}\%$

15 The reciprocal of $\frac{4}{9}$ is $\underline{\hspace{2cm}}$

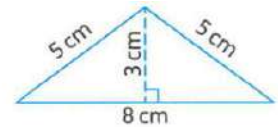
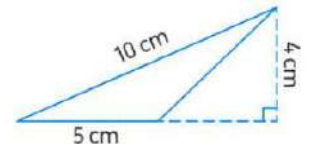
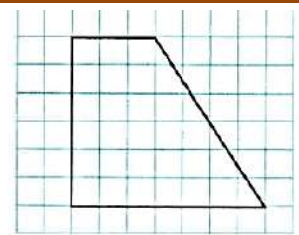
16 $0.5 \times 0.2 = \underline{\hspace{2cm}}$

17 $4.84 \div 0.8 = \underline{\hspace{2cm}}$

18 $\underline{\hspace{2cm}}\%$ of 600 L.E. = 120 L.E.

19 From the opposite model, $\frac{1}{2} \div 3 = \underline{\hspace{2cm}}$

$\frac{1}{2}$			$\frac{1}{2}$		
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

20 A point is located 3 units to the right of the origin point and 2 units up, then the point is ($\underline{\hspace{2cm}}$, $\underline{\hspace{2cm}}$)21 If the side length of a rhombus is 10 cm and it's height 3.4 cm, then it's area = $\underline{\hspace{2cm}}$ cm²22 Start at the point (5, 3) and move 2 units left and 4 units up, then the end point is $\underline{\hspace{2cm}}$ 23 The area of the opposite triangle = $\underline{\hspace{2cm}}$ cm²24 The point (4, 2) is $\underline{\hspace{2cm}}$ units from the y-axis25 The area of the opposite triangle = $\underline{\hspace{2cm}}$ cm²26 The area of the opposite trapezium = $\underline{\hspace{2cm}}$ square units.

27 $\frac{3}{4}$ of $\frac{4}{3} = \underline{\hspace{2cm}}$

28 The point (-3, -4) lies in the $\underline{\hspace{2cm}}$ quadrant

29 $50\% + \frac{1}{2} = \underline{\hspace{2cm}}$

30 The point (2, 0) lies on the $\underline{\hspace{2cm}}$ -axis

Essay Problems:

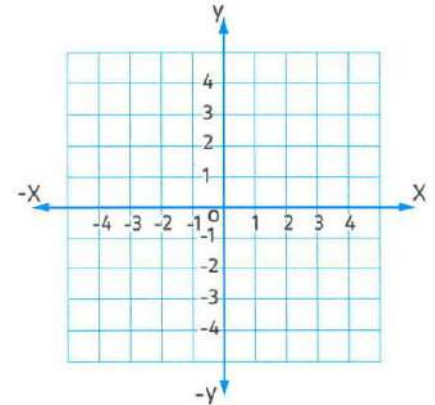
1

120 km per hour = _____ meter per min.

2

Plot the points A (1, -1)
 , B (1, 3)
 , C (-3, 3)
 and D (-3, -1)

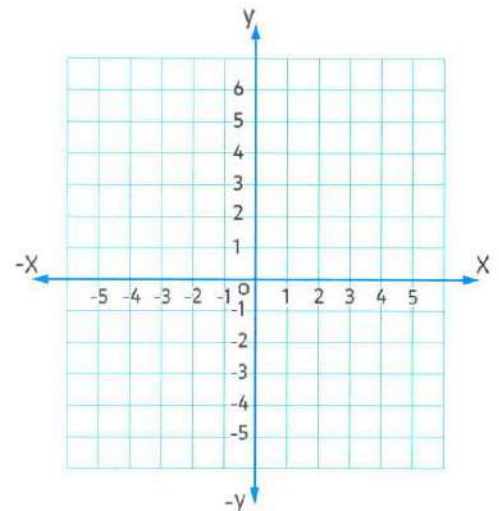
What is the name of the figure ABCD ?



3

Plot the points A (3, 4)
 , B (1, 1), C (0, 4)

Join them and find the image of each one by reflection across the y-axis



4

A man bought a T.V. set. He was given a 15 % discount of its marked price which was 8,500 L.E.
Find its price after discount.

5

If the price of 15 pencils of the same kind is 112.5 L.E. Find the price of each pencil.

6

If the ratio between the number of red pens to the number of blue pens is 2 : 5 and the number of blue pens is more than the number of red pens by 6 pens , then the sum of all pens is _____

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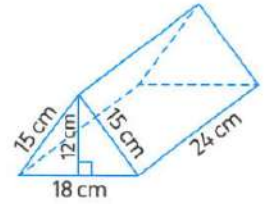
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7

Two machines produce cloth , the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours.
Which machine is better ?

8

Calculate the surface area of the opposite triangular prism.



9

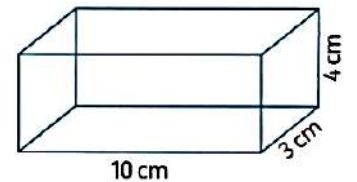
Find the value of x :

$$1. \frac{x}{8} = \frac{10}{20}$$

$$2. \frac{x+1}{10} = 30\%$$

10

Find the surface area of the opposite cuboid.



11

Each stone block in the Great Pyramid has a mass of about 2,300 kg.
How much is the mass of one block in grams ?

12

The two base lengths of a parallelogram are 8 cm , 6 cm and the the smaller height is 3 cm
Calculate the greater height of the parallelogram.

13

A runner covers 24 kilometres in 6 hours.
Find the distance he covers in 4 hours at the same speed.
