الصف السادس الابتدائي ٢٠٢٥

بنك أسئلة

المتميز

أ/ محمود سعيد

ELMotamyez Questions Bank

Math

FINAL REVISION

6 الصف السادس

BY

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ملحق الإجابات بالداخل

نسخة مجانية

El.Motamyez.School

يمكنكم الحصول على المذكرات والاختبارات من خلال مسح رمز الـ QR Code
أو من خلال صفحة "المتميز - أ/ محمود سعيد".

Second Term Questions Bank

Question 01 Choose the correct answer

1. The point..... lies in the third quadrant

(a) (- 5, 2) (b) (5, 2) (c) (-5, - 2) (d) (5, - 2)

2. 2.5 % of 800 L.E = ... L.E

(a) 18 (b) 20 (c) 25 (d) 22

3. If the ratio between A and B is 2 : 3 and the difference of A and B is 20, then A + B = ...

(a) 100 (b) 80 (c) 90 (d) 120

4. The volume of cuboid of dimensions 8 cm , 6 cm and 5 cm is ..... cm^3

(a) 210 (b) 240 (c) 200 (d) 260

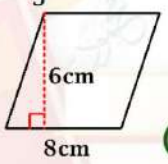
5. 28.32 ÷ 2.4 = 11. 8, then 2.832 ÷ 0.24 =.....

(a) 0.118 (b) 1.12 (c) 11.8 (d) 118

6. Which pair shows equivalent ratios?

(a) 3 to 4 and $\frac{16}{20}$ (b) 1 : 4 and 4 : 6 (c) $\frac{5}{6}$ and $\frac{6}{5}$ (d) $\frac{21}{24}$ and 7: 8

7. The area of the opposite parallelogram = ...cm^2



(a) 48 (b) 42 (c) 24 (d) 36

8. The point (4, - 2) by reflection across the y axis is the point.....

(a) $(-4,-2)$ (b) $(-4,2)$ (c) $(4,2)$ (d) $(2,-4)$

9. How many $\frac{3}{4}$ s are there in 6 bananas?

(a) 10 (b) 8 (c) 12 (d) $4\frac{3}{4}$

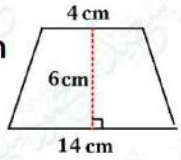
10. 30 % of a kilometer =..... meter

(a) 300 (b) 350 (c) 30 (d) 35

11. A parallelogram with area 20 cm^2 and base length 4 cm, then it's corresponding height is..... cm

(a) 6 (b) 5 (c) 8 (d) 7

12 The area of the opposite trapezium =..... cm^2



(a) 52 (b) 54 (c) 45 (d) 60

13 If the x – coordinate of a point is zero, then the point lies .....

(a) on the y-axis (b) on the x-axis (c) in the first quadrant (d) in the fourth quadrant

14 If the height of a cuboid is divided in fourth, then the ratio between the new volume to the original volume is.....

(a) 1 : 2 (b) 4: 1 (c) 1: 4 (d) 4:2

15 The height of a rhombus whose area is 70 cm^2 and side length 10 cm is..... cm^2

(a) 7 (b) 8 (c) 9 (d) 10

16 Which of the following is the simplest form of 18 : 24?

(a) 8 :12 (b) 3 : 4 (c) 4 :6 (d) 2 to 3

17 Which of the following points is located on The x – axis?

(a) (3, 0) (b) (0, 3) (c) (0, – 3) (d) (3, – 3)

18 From the opposite tape diagram, x =.....

(a) 30 (b) 240 (c) 220 (d) 400

19 If the ratio between two numbers is 1 : 4 and the first number is 12, then the second number is.....

(a) 36 (b) 18 (c) 48 (d) 42

20 If the volume of a cuboid is 220 cm^3 and all the dimensions are doubled, then the new volume is..... cm^3

(a) 1,320 (b) 1,760 (c) 880 (d) 440

21 Which of the following is not unit rate?

(a) 160 L.E weekly (b) 60 L.E for each kg (c) 120 km per 60 minutes. (d) 1 kg of flour per a cake.

22 20% of the number =..... %of the half of the Same number.

(a) 40 (b) 30 (c) 20 (d) 10

23 ABCD is A parallelogram of area 160 cm^2, AB = 20 cm and BC = 40 cm, then the smaller height is..... cm

(a) 10 (b) 8 (c) 5 (d) 4

24 The area of the parallelogram of base 7 cm and height 4 cm is..... cm^2

a) 7+4 b) (7 +4) × 2 c) 7×4 d) 7 ×4×2

25 The point (4, 6) is located..... units from the y axis.

a) 4 b) 6 c) 2 d) 10

26 The distance between the point (4, - 3) and it's image by reflection across the y axis is =..... units.

a) 6 b) 7 c) 8 d) 14

27 $2\frac{1}{4} \div \ldots = 1$

a) $-\frac{4}{9}$ b) $-4\frac{1}{2}$ c) $\frac{9}{4}$ d) $-\frac{8}{4}$

28 $\frac{2}{4} \div \frac{1}{2}$ ..... $\frac{2}{3}$ of 6

a) < b) > c) = d) ≤

29 Which of the following ratios is equivalent to $\frac{24}{48}$

a) $\frac{6}{12}$ b) $\frac{14}{44}$ c) $\frac{9}{18}$ d) $\frac{23}{46}$

30 $0.75 \times 4.5 = 7.5 \times$ .....

a) 0.45 b) 45 c) 4.5 d) 0.045

31 The area of parallegram = ...

a) b-h b) b×h c) 2×(b×h) d) $\frac{h}{b}$

32 The image of the point (-3,-7) by reflection across the x-axis is the point .....

a) (-3,7) b) (3,7) c) (3,-7) d) (-3,-7)

33 30% of a number = 150 , then the number is.....

a) 300 b) 600 c) 500 d) 400

34 The area of triangle length base 12 cm and its corresponding height 4 cm is .....

a) 42cm b) $16cm^2$ c) $24cm^2$ d) 28cm

35 ..... $\div \frac{4}{5} = \frac{5}{6}$

a) $\frac{3}{2}$ b) $\frac{2}{3}$ c) $\frac{8}{10}$ d) $\frac{3}{5}$

36 25% of 400 equals ....

a) 250 b) 200 c) 100 d) 120

37 point (0,-3) lies .....

(a) on the y-axis (b) in the third quadrant (c) on the x-axis (d) in the second quadrant

38 The distance between (3,5) , (-6,5) is ....units

(a) 9 (b) 3 (c) -3 (d) 5

39 12 dm ... 150 mm

(a) > (b) < (c) = (d) otherwise

40 The volume of a cuboid whose length 7cm, width 5cm and height 4cm is .....cm^3

(a) 16 (b) 48 (c) 140 (d) 63

41 The following ordered pairs (-1,1), (-1,-2) , (2,1) and (2,-2) represent the vertices of a .....

(a) Square (b) Triangle (c) Trapezium (d) Rectangle

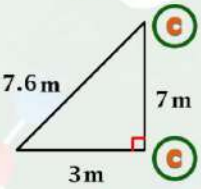
42 12:20 = ... : ... (in the simplest)

(a) 2:3 (b) 7:5 (c) 3:5 (d) 5:3

43 40% of 50 kg = ... gm .

(a) 20000 (b) 17500 (c) 20 (d) 25

44 The area of the opposite triangle. .....



(a) 10m^2 (b) 10.5 m^2 (c) 21 m^2 (d) 22.8 m^2

47 The point which is plotted 5 units to the right of the origin point and 2 units down....

(a) (5,2) (b) (-5,2) (c) (5,-2) (d) (-5,-2)

48 If the ratio of the number of red balls to the number of blue balls is 1:5 and the number of blue ball is 25 then the number of red is .....

(a) 50 (b) 25 (c) 5 (d) 4

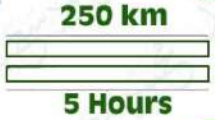
49 If the height of rhombus is 7 CM and it's area is 35 CM^2 , then it is side length

(a) 5 (b) 30 (c) 40 (d) 3.5

50 $5 \div \frac{1}{2}$

(a) 10 (b) $5\frac{1}{2}$ (c) $5\frac{3}{4}$ (d) 20

51 The unit rate of the opposite tape diagram is



(a) 250kg per 5 hours (b) 50 kg per hour (c) 50 km per hour (d) 100km per hour

52 250 gm = ...kg

(a) 25 (b) 2.5 (c) 0.25 (d) 0.025

53 The surface area of square pyramids is =.....

(a) area of base + 4X area of triangular face
(b) 4 X area of base + area of triangular face
(c) 4X area of base + 4 X area of triangular face
(d) area of base + area of triangular face

54 $\frac{5}{2} \div 5$ 5

(a) = (b) > (c) < (d)

55 $1 - (\frac{1}{4} + \frac{1}{2})$ = ...%

(a) 50 (b) 25 (c) $\frac{3}{4}$ (d) 0.25

56 35 I.E for 5 kg , the cost of 30 kg is .....I.E

(a) 200 (b) 250 (c) 1050 (d) 210

57 The point lies on the first quadrant is .....

(a) (-2, 5) (b) (2, -5) (c) (2, 5) (d) (-2, - 5)

58 To find the simplest form of the ratio 210: 280 we divided the two term by.....

(a) 10 (b) 70 (c) 100 (d) 30

59 Point (B, B-2) lies on the X-axis when B= .....

(a) 0 (b) 2 (c) -2 (d) 4

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

(a) (-1,4) (b) (1,4) (c) (1,-4) (d) (-1,-4)

61 $\frac{23}{100}$=....%

(a) 2.3 (b) 23 (c) 0.23 (d) 0.023

62 The area of parallelogram whose base length is 12m and corresponding height is 5m=.....cm^2

(a) 45 (b) 17 (c) 60 (d) 30

63 If B:2^2=3:2 , then B =.....

(a) 6 (b) 9 (c) 3^3 (d) 2^3

64 The area of triangle length base 16 cm and its corresponding height 12 cm is .....

a $28cm^2$ b $48cm^2$ c $96cm^2$ d $196cm^2$

65 A $\div \frac{2}{7} = \frac{1}{2}$, then A=....

a $\frac{1}{7}$ b $\frac{2}{14}$ c $\frac{8}{10}$ d 7

66 40% of 900 equals ....

a 360 b 300 c 150 d 120

67 Point (A,-5) lies in the fourth quadrant then A = ...

a -14 b 0 c -5 d $|-5|$

68 The distance between (5,-9) , (5,-2) is ....unit

a 9 b 7 c 11 d -2

69 2.5%of 700L.E =.....L.E

a 25 b 70 c 175 d 17.5

70 The volume of a cuboid whose length 9cm, width 5cm and height 8cm is .....cm^3

a 360 b 157 c 314 d 660

71 $\frac{2}{7} \div 7$ ..... $\frac{2}{5} \div \frac{1}{5}$

a < b > c = d otherwise

72 Which the following is a conversion factor?

a $\frac{4km}{1\ hr}$ b $\frac{60min}{1sec}$ c $\frac{1week}{7days}$ d $\frac{1,000cm}{1km}$

73 $0.8 \times 20 =$ .....

a 160 b 16 c 1.6 d 0.16

74 60 % ..... $\frac{2}{4}$

a < b > c = d

75 1 – (25% + 45%) = ... %

a 70 b 20 c 30 d 50

76 If the start. point at (2, 3) and move 3 units to the left and 4 units up, then the end point is..

a (-1 , 7) b (-7,1) c (1,-7) d (1,7)

77 The surface area of a cube of edges length 4cm = ... cm^3

a 69 b 96 c 24 d 16

78 Ali bought 3kg of Mango for 30 L . E , then he paid ..... LE to to buy 6Kg

(a) 60 (b) 30 (c) 10 (d) 20

79 If the height of a rhombus is 5cm and it's area is 30 cm^2, then it's side length is ..... cm

(a) 150 (b) 35 (c) 6 (d) 3

80 If $\frac{4}{x}$ is equivalent to $\frac{1}{2}$ then X = ...

(a) 2 (b) 8 (c) 4 (d) 6

81 12% of 125 Kg = ... Kg

(a) 1200 (b) 15 (c) 18 (d) 0.015

82 The reciprocal od $3\frac{1}{3}$ = ...

(a) $\frac{10}{3}$ (b) $\frac{1}{3}$ (c) $\frac{3}{10}$ (d) 3

83 A point is located 4 units to the left of the origin point and 2 units down, then the point is .

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

84 If the ratio 3:5 is equivalent to x : 15 , then x+1 .....

(a) 9 (b) 15 (c) 10 (d) 11

85 $\frac{\dots}{\dots} \times \frac{1}{6} = \frac{4}{18}$

(a) $\frac{3}{4}$ (b) $\frac{1}{4}$ (c) $\frac{4}{3}$ (d) 6

86 $\frac{5}{6}$ of $\frac{6}{5}$ = ...

(a) 1 (b) 0 (c) $\frac{1}{5}$ (d) 6

87 If the ratio 4:5 is the same as x : 20 , then x = ...

(a) 4 (b) 16 (c) 10 (d) 8

88 The point A (3, d) lies on the x-axis then d = ...

(a) 1 (b) -3 (c) 3 (d) 0

89 If 0.035 ÷ 0.5 = A , then the value of A = ...

(a) 7 (b) 0.07 (c) 70 (d) 0.7

90 0.04 = ...%

(a) 4 (b) 0.4 (c) 40 (d) 400

91 1 Kg is conversion factor ?

(a) 100 g (b) 1000 g (c) 1000 m (d) 10 g

92 If a cube has an edge of 5 cm then its surface area is ....cm^2

(a) 25 (b) 125 (c) 150 (d) 20

93 The point (y,-4) lies in ..... quadrant

(a) First (b) Second (c) third (d) fourth

94 360 minute x $\frac{\dots}{\dots}$ = 6 hours

(a) $\frac{1\ hr}{60\ min}$ (b) $\frac{60\ min}{1\ hr}$ (c) $\frac{1\ hr}{60\ sec}$ (d) $\frac{60\ sec}{1\ min}$

95 14.5×2.5 = ...

(a) 0.3625 (b) 36.25 (c) 3625 (d) 362.5

96 320 : 300 = ... to ..... (insimplest form)

(a) 16 : 15 (b) 32 : 30 (c) 160 : 150 (d) 64 : 60

97 The point (0, 2) lies on .....

(a) X^{axis} (b) Y_{axis} (c) 1st quadrant (d) 3rd quadrant

98 If the price of the microwave is 5000 LE, the 10% of its price is .....

(a) 50 (b) 5 (c) 500 (d) 0.5

99 The point (0, -5) is the image of itself by reflection across .....

(a) y-axis (b) x-axis (c) 1st quadrant (d) Fourth quadrant

100 If $\frac{x}{8}$ is quivalent to 2 then x = ...

(a) 4 (b) 2 (c) 16 (d) 20

101 ..... $\div \frac{2}{7} = 1$

(a) $\frac{2}{7}$ (b) $\frac{7}{2}$ (c) $\frac{1}{6}$ (d) $\frac{1}{2}$

102 The area of triangle = ...

(a) base × height (b) $\frac{1}{2}$ × base length × height

(c) 2 × base × height (d) 2 × base × height

103 $\frac{3}{8} \times \frac{1}{4} = \frac{3}{8} \div$ .....

(a) $\frac{1}{4}$ (b) $\frac{8}{3}$ (c) 4 (d) 8

104 If the ratio 6 : 8 is the same as x : 32, then x = ...

(a) 24 (b) 12 (c) 16 (d) 30

105 The reciprocal of ..... is 10

(a) 1 (b) 0 (c) 0.1 (d) 5

106 $4.3 \times 0.2 =$.....

(a) 8.6 (b) 0.86 (c) 86 (d) 860

107 0.2 = ... %

(a) 2 (b) 200 (c) 20 (d) 2000

108 3.68 m = ... cm

(a) 0.368 (b) 3680 (c) 368 (d) 36.8

109 If the cube has an edge of 9 cm then its surface area is ..... cm^2

(a) 81 (b) 486 (c) 54 (d) 729

110 Area of triangle = ...

(a) $0.5 \times b \times h$ (b) $b \times h$ (c) $s \times s$ (d) $l \times w$

111 8% of ..... = 36

(a) 450 (b) 0.45 (c) 45 (d) 4.5

112 $17 \times 2.25 =$.....

(a) 3825 (b) 38.25 (c) 0.3825 (d) 3.825

113 42 : 63 = 2 : .....

(a) 4 (b) 2 (c) 3 (d) 5

Find x = ... , y = ...

114 From the opposite table

girls	2	4	y
boys	3	x	15

(a) 6, 10 (b) 3, 2 (c) 4, 3 (d) 15, 2

115 If the ratio between a and b is 3: 5 and b is 10, then a = ...

(a) 5 (b) 3 (c) 6 (d) 12

116 600 gram per sec = ... Kg/min

(a) 60 (b) 36 (c) 3.6 (d) 30

117 The point (3, 0) is located on .....

(a) 1st quadrant (b) x-axis (c) y-axis (d) 2nd quadrant

118 $\frac{3}{4}$ = ... %

(a) 50 (b) 25 (c) 75 (d) 100

119 Noha spends 48 LE in 6 days, then she spend ..... in 10 days

(a) 40 (b) 80 (c) 60 (d) 50

120 $\frac{19}{20}$ 21%

(a) > (b) < (c) = (d)

121 20% pupils in the class = 5 pupils then the total number of pupils in class = ...

(a) 25 (b) 20 (c) 5 (d) 30

122 350 cm = ... m

(a) 30 (b) 3.5 (c) 35 (d) 0.35

123 40% of 40 = ...

(a) 16 (b) 20 (c) 1.6 (d) 4

124 The ordered pair representing the origin is .....

(a) (1, 1) (b) (0, 0) (c) (2, 0) (d) (0, 3)

125 3600 sec = ... hr

(a) 60 (b) 1 (c) 36 (d) 30

126 ..... Is a ratio that compere a quantity to one unit of second quantity

(a) unitrate (b) ratio (c) Conversion factor (d) reciprocal

127 55% = 1 - ..... %

(a) 50 (b) 45 (c) 40 (d) 54

128 In the point (7, 3), the x-coordinate is .....

(a) 3 (b) (7, 3) (c) 7 (d) (3, 7)

129 45% ÷ $\frac{9}{20}$ = ... %

(a) 1 (b) 100 (c) 45 (d) 20

130 $17 \times 2.25 =$.....

(a) 3825 (b) 38.25 (c) 0.3825 (d) 3.825

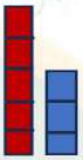
131 $8 : 12 = 2 : ....$

(a) 4 (b) 2 (c) 3 (d) 5

132 $3.2 \times 0.2 =$.....

(a) 0.64 (b) 64 (c) 6.4 (d) 0.064

133 The ratio between the number of red squares to the number of blue squares = ... : .....



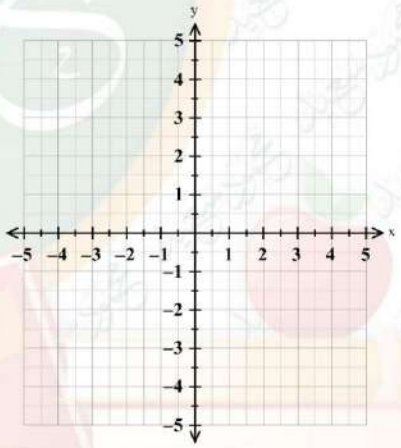
(a) 5: 3 (b) 2: 5
(c) 4: 1 (d) 5 : 2

Question 02 Answer the following questions

1 If the perimeter of an equilateral triangle is 90 cm and it's area is 180 cm^2, Find the height.

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

2 Graph the point A (- 3, 3) and B (2, 3), then find the distance between A and B



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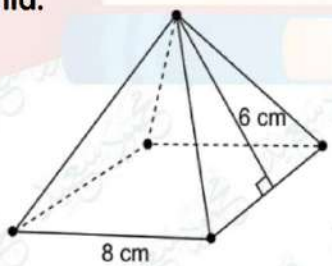
3 Find the surface area of the opposite square - based pyramid.



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

4 Find the value of x :

$\frac{x}{6} = \frac{2}{3}$

.....

5 (b) $\frac{x+1}{20} = 40\ \%$

.....

6 The number of students in school is 250, if 40% of them are absent.
What is the number of the absent students in this school?

.....

7 Find the side length of cube in which the surface area equals 384 cm^2.

.....

8 Mona bought a New T.V, she was given a 20% discount of its marked price which was 12,500 L.E --- Find its price after discount.

.....

9 A runner covers 12kilometres in 3 hours

Find the distance he covers in 2hours at the same speed.

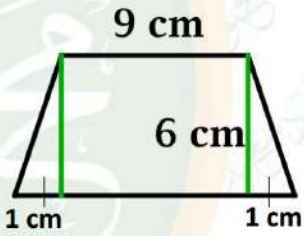
.....

10 The area of the opposite trapezium is .... cm^2

.....

.....

.....



11 Mazen bought a shirt for 400 pounds with a 20% discount, what is price of the shirt after the discount?

.....

12 A runner covers 24 kilometer in 4 hours find the distance he covers in 10 hours at the same speed.

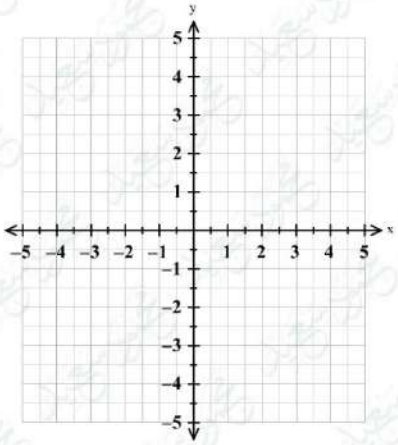
.....

13 In the science exam , Ahmed got 70% and Rana got 40 marks out of 50 which of them has got a better score

.....

14 plot A (4,2), B (1,2) , C(1,5) , D(4,5) ,What is the name of the figure ABCD?

ABCD is .....



15 In math exam , yasser got 90% and fayz got 40marks out of 60 which of them has got a better score , what is the difference between their score ?

.....

16 Laila has 6 liters of milks , she needs to divide it into small bottles of $\frac{3}{4}$ liters each , how many bottles will she need ?

.....

17 find the corresponding height of the parallelogram with area 30 cm2 base length 5 cm

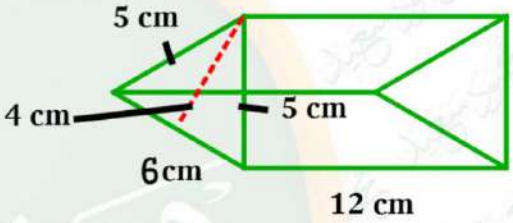
.....

18 calculate the surface area of the opposite triangular prism.

.....

.....

.....



19 $\frac{x+3}{10}$ = 50%

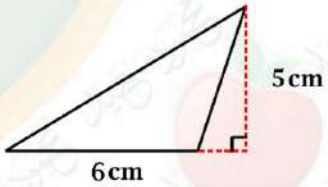
.....

20 Mayar bought a car 660,000L.E she paid 40% of its price , How much money did she pay ?

.....

21 Find the value of X : $\frac{X}{15} = \frac{10}{30}$

.....

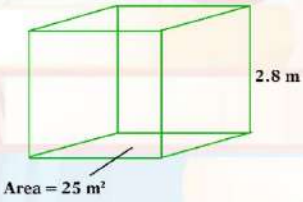


22 Find the area of the opposite triangle

.....

23 Find the volume of the opposite cuboid

.....



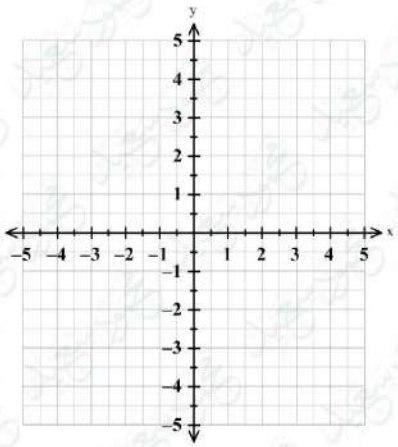
24 Find the value of x, if $\frac{x+1}{5} = 40\%$

.....

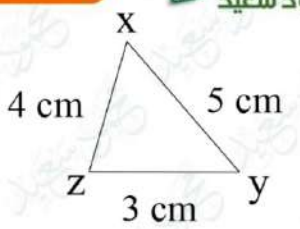
25 The two bases of parallelogram are 10 cm and, 5 cm the smaller height is 5 cm, find the area of the parallelogram

.....

26 plot A (4,-2), B (2,2) , C(-2,2) , D(-4,-2) ,
What kind of shape do they make ?
ABCD is .....



27 From the opposite triangle, find the ratio between $\overline{xy}$ and the perimeter of the triangle



.....

28 If $\frac{4}{9}$ is equivalent to $\frac{x}{18}$, then $x - 4 =$ .....

.....

29 What type of triangle is it according to the measure of its angles in which its heights intersect out side it?

.....

30 A box of the table tennis balls weighs $\frac{10}{18}$ of a kg if each ball weighs $\frac{5}{27}$ of a kg. then how many balls are there in the box?

.....

31 Yasin covered $\frac{3}{5}$ of kilometre in 3 laps. What is the distance he covered in one laps?

.....

32 How many heights are there in a triangle?

.....

33 What type of triangle is it according to its measures of its angles in which its heights intersect inside it?

.....

34 If x (a, 2) and y (3, -2) and given that a < 0 and the length of xy is 6 units, then find the value of a ?

.....

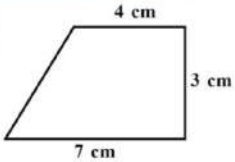
35 A piece of cloth of 4 meter long was put in water it shrunk by 5%, what is the length after shrinking?

.....

36 Find the area of the rhombus whose perimeter 40 cm and height 8 cm?

.....

37 Find the area of the opposite trapezim



.....

38 If the ratio of a, b = 4 : 5, and a + b = 36, then find the value of a ?

.....

39 If the perimeter of an equilateral triangle is 18 cm and its area is 15 cm^2 , then find its height

.....

40 On most summer days, camels drink about 30000 malletiers of water. How many litter of water is that?

.....

41 The perimeter of square shaped paper is $\frac{6}{11}$ m. find the length of each side of the paper

.....

42 May divided 127.5 L.E among her three sons. Find the share of each one

.....

43 Find the value of m, if $\frac{1}{5} \div m = 5$

.....

44 Write the ratio 4 : 6 in two different ways?

.....

47 Is $\frac{1km}{100m}$ a conversion factor

.....

48 Mona has 60 L.E she spent $\frac{3}{5}$ of what she has what is the percentage of the mony she spent?

.....

49 Ahmed bought a T.V set. He was a 10% discount of its marked since, was 10000 L,E, find its price after discount

.....

50 ***moving the point*** $(3, 4)$**3** ***units to the right and*** **5** ***units down, then what is*** end point?

.....

51 If the point (-1, 4) is the image of point (a, b) by reflection in y-axis, then, what is the value of a + b ?

.....

52 Find the distance between the two points (-2, 3) and (-2, 1)

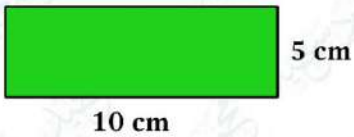
.....

53 If the lunch bill for you and your friend is EGP 300 and the sales tax rate is 5% and a 10% service charge is added. Calculate the totel amount of lunch?

.....

54 Find the ratio between the length and perimeter in the opposite rectangle

.....



انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق

الصف السادس الابتدائي ٢٠٢٥

بنك أسئلة

المتميز

أ/ محمود سعيد

Model Answers

Math

FINAL REVISION

6 الصف السادس

BY

MR . Mahmoud Elkhouly

Second Term Questions Bank المتميز

Question 01 Choose the correct answer

1. The point..... lies in the third quadrant

(a) (- 5, 2) (b) (5, 2) (c) (-5, - 2) (d) (5, - 2)

2. 2.5 % of 800 L.E = ... L.E

(a) 18 (b) 20 (c) 25 (d) 22

3. If the ratio between A and B is 2 : 3 and the difference of A and B is 20, then A + B = ...

(a) 100 (b) 80 (c) 90 (d) 120

4. The volume of cuboid of dimensions 8 cm , 6 cm and 5 cm is ..... cm^3

(a) 210 (b) 240 (c) 200 (d) 260

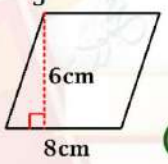
5. 28.32 ÷ 2.4 = 11. 8, then 2.832 ÷ 0.24 =.....

(a) 0.118 (b) 1.12 (c) 11.8 (d) 118

6. Which pair shows equivalent ratios?

(a) 3 to 4 and $\frac{16}{20}$ (b) 1 : 4 and 4 : 6 (c) $\frac{5}{6}$ and $\frac{6}{5}$ (d) $\frac{21}{24}$ and 7:8

7. The area of the opposite parallelogram = ...cm^2



(a) 48 (b) 42 (c) 24 (d) 36

8. The point (4, - 2) by reflection across the y axis is the point.....

(a) $(-4,-2)$ (b) $(-4,2)$ (c) $(4,2)$ (d) $(2,-4)$

9. How many $\frac{3}{4}$ s are there in 6 bananas?

(a) 10 (b) 8 (c) 12 (d) $4\frac{3}{4}$

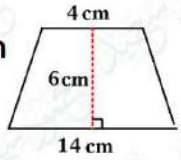
10. 30 % of a kilometer =..... meter

(a) 300 (b) 350 (c) 30 (d) 35

11. A parallelogram with area 20 cm^2 and base length 4 cm, then it's corresponding height is..... cm

(a) 6 (b) 5 (c) 8 (d) 7

12 The area of the opposite trapezium =..... cm^2



(a) 52 (b) 54 (c) 45 (d) 60

13 If the x – coordinate of a point is zero, then the point lies .....

(a) on the y-axis (b) on the x-axis (c) in the first quadrant (d) in the fourth quadrant

14 If the height of a cuboid is divided in fourth, then the ratio between the new volume to the original volume is.....

(a) 1 : 2 (b) 4: 1 (c) 1: 4 (d) 4:2

15 The height of a rhombus whose area is 70 cm^2 and side length 10 cm is..... cm^2

(a) 7 (b) 8 (c) 9 (d) 10

16 Which of the following is the simplest form of 18 : 24?

(a) 8 :12 (b) 3 : 4 (c) 4 :6 (d) 2 to 3

17 Which of the following points is located on The x – axis?

(a) (3, 0) (b) (0, 3) (c) (0, – 3) (d) (3, – 3)

18 From the opposite tape diagram, x =.....

(a) 30 (b) 240 (c) 220 (d) 400

19 If the ratio between two numbers is 1 : 4 and the first number is 12, then the second number is.....

(a) 36 (b) 18 (c) 48 (d) 42

20 If the volume of a cuboid is 220 cm^3 and all the dimensions are doubled, then the new volume is..... cm^3

(a) 1,320 (b) 1,760 (c) 880 (d) 440

21 Which of the following is not unit rate?

(a) 160 L.E weekly (b) 60 L.E for each kg (c) 120 km per 60 minutes. (d) 1 kg of flour per a cake.

22 20% of the number =..... %of the half of the Same number.

(a) 40 (b) 30 (c) 20 (d) 10

23 ABCD is A parallelogram of area 160 cm^2, AB = 20 cm and BC = 40 cm, then the smaller height is..... cm

(a) 10 (b) 8 (c) 5 (d) 4

24 The area of the parallelogram of base 7 cm and height 4 cm is..... cm^2

a) 7+4 b) (7 +4) × 2 c) 7×4 d) 7 ×4×2

25 The point (4, 6) is located..... units from the y axis.

a) 4 b) 6 c) 2 d) 10

26 The distance between the point (4, - 3) and it's image by reflection across the y axis is =..... units.

a) 6 b) 7 c) 8 d) 14

27 $2\frac{1}{4} \div \ldots = 1$

a) $-\frac{4}{9}$ b) $-4\frac{1}{2}$ c) $\frac{9}{4}$ d) $-\frac{8}{4}$

28 $\frac{2}{4} \div \frac{1}{2}$ ..... $\frac{2}{3}$ of 6

a) < b) > c) = d) ≤

29 Which of the following ratios is equivalent to $\frac{24}{48}$

a) $\frac{6}{12}$ b) $\frac{14}{44}$ c) $\frac{9}{18}$ d) $\frac{23}{46}$

30 0.75 × 4.5 = 7.5 × .....

a) 0.45 b) 45 c) 4.5 d) 0.045

31 The area of parallegram = ...

a) b-h b) b×h c) 2×(b×h) d) $\frac{h}{b}$

32 The image of the point (-3,-7) by reflection across the x-axis is the point .....

a) (-3,7) b) (3,7) c) (3,-7) d) (-3,-7)

33 30% of a number = 150 , then the number is.....

a) 300 b) 600 c) 500 d) 400

34 The area of triangle length base 12 cm and its corresponding height 4 cm is .....

a) 42cm b) 16cm^2 c) 24cm^2 d) 28cm

35 ..... $\div \frac{4}{5} = \frac{5}{6}$

a) $\frac{3}{2}$ b) $\frac{2}{3}$ c) $\frac{8}{10}$ d) $\frac{3}{5}$

36 25% of 400 equals ....

a) 250 b) 200 c) 100 d) 120

37 point (0,-3) lies .....

(a) on the y-axis (b) in the third quadrant (c) on the x-axis (d) in the second quadrant

38 The distance between (3,5) , (-6,5) is ....units

(a) 9 (b) 3 (c) -3 (d) 5

39 12 dm ... 150 mm

(a) > (b) < (c) = (d) otherwise

40 The volume of a cuboid whose length 7cm, width 5cm and height 4cm is .....cm^3

(a) 16 (b) 48 (c) 140 (d) 63

41 The following ordered pairs (-1,1), (-1,-2) , (2,1) and (2,-2) represent the vertices of a .....

(a) Square (b) Triangle (c) Trapezium (d) Rectangle

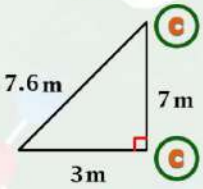
42 12:20 = ... : ... (in the simplest)

(a) 2:3 (b) 7:5 (c) 3:5 (d) 5:3

43 40% of 50 kg = ... gm .

(a) 20000 (b) 17500 (c) 20 (d) 25

44 The area of the opposite triangle. .....



(a) $10m^2$ (b) $10.5\ m^2$ (c) $21\ m^2$ (d) $22.8\ m^2$

47 The point which is plotted 5 units to the right of the origin point and 2 units down....

(a) (5,2) (b) (-5,2) (c) (5,-2) (d) (-5,-2)

48 If the ratio of the number of red balls to the number of blue balls is 1:5 and the number of blue ball is 25 then the number of red is .....

(a) 50 (b) 25 (c) 5 (d) 4

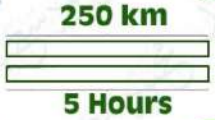
49 If the height of rhombus is 7 CM and it's area is 35 CM^2 , then it is side length

(a) 5 (b) 30 (c) 40 (d) 3.5

50 $5 \div \frac{1}{2}$

(a) 10 (b) $5\frac{1}{2}$ (c) $5\frac{3}{4}$ (d) 20

51 The unit rate of the opposite tape diagram is



(a) 250kg per 5 hours (b) 50 kg per hour (c) 50 km per hour (d) 100km per hour

52 250 gm = ...kg

(a) 25 (b) 2.5 (c) 0.25 (d) 0.025

53 The surface area of square pyramids is =.....

(a) area of base + 4X area of triangular face

(b) 4 X area of base + area of triangular face

(c) 4X area of base + 4 Xarea of triangular face

(d) area of base + area of triangular face

54 $\frac{5}{2} \div 5$ 5

(a) = (b) > (c) < (d)

55 $1 - (\frac{1}{4} + \frac{1}{2})$ = ...%

(a) 50 (b) 25 (c) $\frac{3}{4}$ (d) 0.25

56 35 l.E for 5 kg , the cost of 30 kg is .....l.E

(a) 200 (b) 250 (c) 1050 (d) 210

57 The point lies on the first quadrant is .....

(a) (-2, 5) (b) (2, -5) (c) (2, 5) (d) (-2, - 5)

58 To find the simplest form of the ratio 210: 280 we divided the two term by.....

(a) 10 (b) 70 (c) 100 (d) 30

59 Point (B, B-2) lies on the X-axis when B= .....

(a) 0 (b) 2 (c) -2 (d) 4

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

(a) (-1,4) (b) (1,4) (c) (1,-4) (d) (-1,-4)

61 $\frac{23}{100}$=....%

(a) 2.3 (b) 23 (c) 0.23 (d) 0.023

62 The area of parallelogram whose base length is 12m and corresponding height is 5m=.....cm^2

(a) 45 (b) 17 (c) 60 (d) 30

63 If B:2^2=3:2 , then B =.....

(a) 6 (b) 9 (c) 3^3 (d) 2^3

64 The area of triangle length base 16 cm and its corresponding height 12 cm is .....

(a) $28cm^2$ (b) $48cm^2$ (c) $96cm^2$ (d) $196cm^2$

65 A $\div \frac{2}{7} = \frac{1}{2}$, then A=....

(a) $\frac{1}{7}$ (b) $\frac{2}{14}$ (c) $\frac{8}{10}$ (d) 7

66 40% of 900 equals ....

(a) 360 (b) 300 (c) 150 (d) 120

67 Point (A,-5) lies in the fourth quadrant then A = ...

(a) -14 (b) 0 (c) -5 (d) $|-5|$

68 The distance between (5,-9) , (5,-2) is ....unit

(a) 9 (b) 7 (c) 11 (d) -2

69 2.5%of 700L.E =.....L.E

(a) 25 (b) 70 (c) 175 (d) 17.5

70 The volume of a cuboid whose length 9cm, width 5cm and height 8cm is .....cm^3

(a) 360 (b) 157 (c) 314 (d) 660

71 $\frac{2}{7} \div 7$ ..... $\frac{2}{5} \div \frac{1}{5}$

(a) < (b) > (c) = (d) otherwise

72 Which the following is a conversion factor?

(a) $\frac{4km}{1\ hr}$ (b) $\frac{60min}{1sec}$ (c) $\frac{1week}{7days}$ (d) $\frac{1,000cm}{1km}$

73 $0.8 \times 20 =$ .....

(a) 160 (b) 16 (c) 1.6 (d) 0.16

74 60 % ..... $\frac{2}{4}$

(a) < (b) > (c) = (d)

75 1 – (25% + 45%) = ... %

(a) 70 (b) 20 (c) 30 (d) 50

76 If the start. point at (2, 3) and move 3 units to the left and 4 units up, then the end point is..

(a) (-1 , 7) (b) (-7,1) (c) (1,-7) (d) (1,7)

77 The surface area of a cube of edges length 4cm = ... cm^3

(a) 69 (b) 96 (c) 24 (d) 16

78 Ali bought 3kg of Mango for 30 L . E , then he paid ..... LE to to buy 6Kg

(a) 60 (b) 30 (c) 10 (d) 20

79 If the height of a rhombus is 5cm and it's area is 30 cm^2, then it's side length is ..... cm

(a) 150 (b) 35 (c) 6 (d) 3

80 If $\frac{4}{x}$ is equivalent to $\frac{1}{2}$ then X = ...

(a) 2 (b) 8 (c) 4 (d) 6

81 12% of 125 Kg = ... Kg

(a) 1200 (b) 15 (c) 18 (d) 0.015

82 The reciprocal od $3\frac{1}{3}$ = ...

(a) $\frac{10}{3}$ (b) $\frac{1}{3}$ (c) $\frac{3}{10}$ (d) 3

83 A point is located 4 units to the left of the origin point and 2 units down, then the point is .

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

84 If the ratio 3:5 is equivalent to x : 15 , then x+1 .....

(a) 9 (b) 15 (c) 10 (d) 11

85 $\frac{\dots}{\dots} \times \frac{1}{6} = \frac{4}{18}$

(a) $\frac{3}{4}$ (b) $\frac{1}{4}$ (c) $\frac{4}{3}$ (d) 6

86 $\frac{5}{6}$ of $\frac{6}{5}$ = ...

(a) 1 (b) 0 (c) $\frac{1}{5}$ (d) 6

87 If the ratio 4:5 is the same as x : 20 , then x = ...

(a) 4 (b) 16 (c) 10 (d) 8

88 The point A (3, d) lies on the x-axis then d = ...

(a) 1 (b) -3 (c) 3 (d) 0

89 If 0.035 ÷ 0.5 = A , then the value of A = ...

(a) 7 (b) 0.07 (c) 70 (d) 0.7

90 0.04 = ...%

(a) 4 (b) 0.4 (c) 40 (d) 400

91 1 Kg is conversion factor ?

(a) 100 g (b) 1000 g (c) 1000 m (d) 10 g

92 If a cube has an edge of 5 cm then its surface area is ....cm^2

(a) 25 (b) 125 (c) 150 (d) 20

93 The point (y,-4) lies in ..... quadrant

(a) First (b) Second (c) third (d) fourth

94 360 minute x $\frac{\dots}{\dots}$ = 6 hours

(a) $\frac{1\ hr}{60\ min}$ (b) $\frac{60\ min}{1\ hr}$ (c) $\frac{1\ hr}{60\ sec}$ (d) $\frac{60\ sec}{1\ min}$

95 14.5×2.5 = ...

(a) 0.3625 (b) 36.25 (c) 3625 (d) 362.5

96 320 : 300 = ... to ..... (insimplest form)

(a) 16 : 15 (b) 32 : 30 (c) 160 : 150 (d) 64 : 60

97 The point (0, 2) lies on .....

(a) X^{axis} (b) Y_{axis} (c) 1st quadrant (d) 3rd quadrant

98 If the price of the microwave is 5000 LE, the 10% of its price is .....

(a) 50 (b) 5 (c) 500 (d) 0.5

99 The point (0, -5) is the image of itself by reflection across .....

(a) y-axis (b) x-axis (c) 1st quadrant (d) Fourth quadrant

100 If $\frac{x}{8}$ is quivalent to 2 then x = ...

(a) 4 (b) 2 (c) 16 (d) 20

101 ..... $\div \frac{2}{7} = 1$

(a) $\frac{2}{7}$ (b) $\frac{7}{2}$ (c) $\frac{1}{6}$ (d) $\frac{1}{2}$

102 The area of triangle = ...

(a) base × height (b) $\frac{1}{2}$ × base length × height

(c) 2 × base × height (d) 2 × base × height

103 $\frac{3}{8} \times \frac{1}{4} = \frac{3}{8} \div$ .....

(a) $\frac{1}{4}$ (b) $\frac{8}{3}$ (c) 4 (d) 8

104 If the ratio 6 : 8 is the same as x : 32, then x = ...

(a) 24 (b) 12 (c) 16 (d) 30

105 The reciprocal of ..... is 10

(a) 1 (b) 0 (c) 0.1 (d) 5

106 $4.3 \times 0.2 =$.....

(a) 8.6 (b) 0.86 (c) 86 (d) 860

107 0.2 = ... %

(a) 2 (b) 200 (c) 20 (d) 2000

108 3.68 m = ... cm

(a) 0.368 (b) 3680 (c) 368 (d) 36.8

109 If the cube has an edge of 9 cm then its surface area is ..... cm^2

(a) 81 (b) 486 (c) 54 (d) 729

110 Area of triangle = ...

(a) $0.5 \times b \times h$ (b) $b \times h$ (c) $s \times s$ (d) $l \times w$

111 8% of ..... = 36

(a) 450 (b) 0.45 (c) 45 (d) 4.5

112 $17 \times 2.25 =$.....

(a) 3825 (b) 38.25 (c) 0.3825 (d) 3.825

113 42 : 63 = 2 : .....

(a) 4 (b) 2 (c) 3 (d) 5

Find x = ... , y = ...

114 From the opposite table

girls	2	4	y
boys	3	x	15

(a) 6, 10 (b) 3, 2 (c) 4, 3 (d) 15, 2

115 If the ratio between a and b is 3: 5 and b is 10, then a = ...

(a) 5 (b) 3 (c) 6 (d) 12

116 600 gram per sec = ... Kg/min

(a) 60 (b) 36 (c) 3.6 (d) 30

117 The point (3, 0) is located on .....

(a) 1st quadrant (b) x-axis (c) y-axis (d) 2nd quadrant

118 $\frac{3}{4}$ = ... %

(a) 50 (b) 25 (c) 75 (d) 100

119 Noha spends 48 LE in 6 days, then she spend ..... in 10 days

(a) 40 (b) 80 (c) 60 (d) 50

120 $\frac{19}{20}$ 21%

(a) > (b) < (c) = (d)

121 20% pupils in the class = 5 pupils then the total number of pupils in class = ...

(a) 25 (b) 20 (c) 5 (d) 30

122 350 cm = ... m

(a) 30 (b) 3.5 (c) 35 (d) 0.35

123 40% of 40 = ...

(a) 16 (b) 20 (c) 1.6 (d) 4

124 The ordered pair representing the origin is .....

(a) (1, 1) (b) (0, 0) (c) (2, 0) (d) (0, 3)

125 3600 sec = ... hr

(a) 60 (b) 1 (c) 36 (d) 30

126 ..... Is a ratio that compere a quantity to one unit of second quantity

(a) unitrate (b) ratio (c) Conversion factor (d) reciprocal

127 55% = 1 - ..... %

(a) 50 (b) 45 (c) 40 (d) 54

128 In the point (7, 3), the x-coordinate is .....

(a) 3 (b) (7, 3) (c) 7 (d) (3, 7)

129 45% ÷ $\frac{9}{20}$ = ... %

(a) 1 (b) 100 (c) 45 (d) 20

130 $17 \times 2.25 =$.....

(a) 3825 (b) 38.25 (c) 0.3825 (d) 3.825

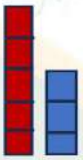
131 $8 : 12 = 2 : ....$

(a) 4 (b) 2 (c) 3 (d) 5

132 $3.2 \times 0.2 =$.....

(a) 0.64 (b) 64 (c) 6.4 (d) 0.064

133 The ratio between the number of red squares to the number of blue squares = ... : .....



(a) 5: 3 (b) 2: 5
(c) 4: 1 (d) 5 : 2

Question 02 Answer the following questions

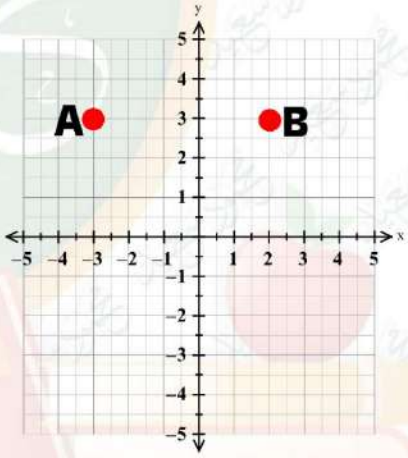
1 If the perimeter of an equilateral triangle is 90 cm and it's area is 180 cm^2, Find the height.

side length = 90 ÷ 3 = 30 cm

Area of triangle = $\frac{1}{2} \times b \times h$

Height = $\frac{2 \times 180}{30} = 12\ cm$

2 Graph the point A (- 3, 3) and B (2, 3), then find the distance between A and B



The distance between A and B =

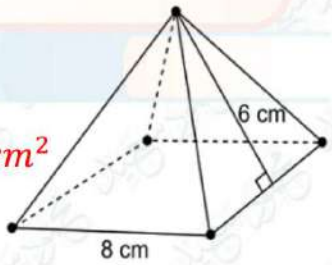
| - 3 | + 2 = 5 units

3 Find the surface area of the opposite square - based pyramid.

Area of squared base = S × itself =8 × 8 = $64cm^2$

Area of Triangular Sides = $4 \times (\frac{1}{2} \times b \times h) = 4 \times \left(\frac{1}{2} \times 8 \times 6\right) = 96\ cm^2$

Area of square – based pyramid = 64 + 96 = $160\ cm^2$.



4 Find the value of x :

$\frac{x}{6} = \frac{2}{3}$

X= $\frac{6 \times 2}{3} = \frac{12}{3} = 4$

5 (b) $\frac{x+1}{20} = 40\ \%$

X+1 = $\frac{40 \times 20}{100}$ – – – – X +1 = 8 , x = 7

6 The number of students in school is 250, if 40% of them are absent.
What is the number of the absent students in this school?

$$\text{The number of student} = \frac{40}{100} \times 250 = 100 \text{ student}$$

7 Find the side length of cube in which the surface area equals 384 cm^2.

Area of cube $= 6 \times s^2$ −− Then, $s^2 = 384 \div 6 = 64$

S = 8 cm.

8 Mona bought a New T.V, she was given a 20% discount of its marked price which was 12,500 L.E --- Find its price after discount.

20 % of 12,500 L.E = $\frac{20}{100} \times 12{,}500$ = 2,500 L.E

The price after the discount = 12,500 – 2,500 = 10,000 L.E

9 A runner covers 12kilometres in 3 hours

Find the distance he covers in 2hours at the same speed.

$\frac{12\ km}{?\ km} = \frac{3hr}{2hr}$ Then, the distance in 2hr is 8km

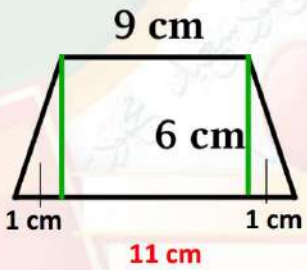
10 The area of the opposite trapezium is .... cm^2

area of rectangle= $9 \times 6 = 54 cm^2$

area of triangle (1) = 3 cm^2

area of triangle (2) =$3 cm^2$

then, area of trapezium=54+3+3 =$60 cm^2$



11 Mazen bought a shirt for 400 pounds with a 20% discount, what is price of the shirt after the discount?

discount =400×20%=80 pounds

Shirt after the discount = 400 – 80 =320 pounds

12 A runner covers 24 kilometer in 4 hours find the distance he covers in 10 hours at the same speed.

Runner cover = $\frac{24}{4}$ = 6 kilometer / hour

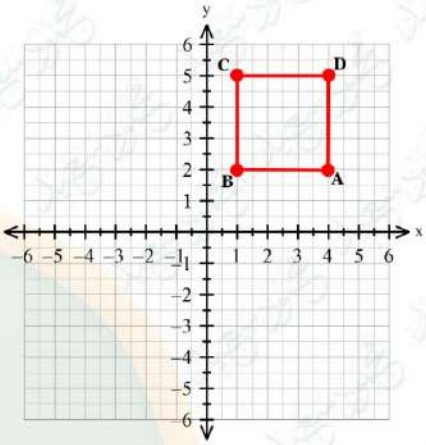
Distance he covers in 10 hours = 6×10 = 60 kilometer

13 In the science exam , Ahmed got 70% and Rana got 40 marks out of 50 which of them has got a better score

Ahmed got 70%

Rana got $=\frac{40}{50}\times 100=80\%$, Rana has got a better score

14 plot A (4,2), B (1,2) , C(1,5) , D(4,5) ,What is the name of the figure ABCD?



ABCD is Square

15 In math exam , yasser got 90% and fayz got 40marks out of 60 which of them has got a better score , what is the difference between their score ?

Yaser got $=\frac{90}{100}\times 60 = 54$ marks

Yasser has got a better score

Difference = 54 -40 = 14 marks

16 Laila has 6 liters of milks , she needs to divide it into small bottles of $\frac{3}{4}$ liters each , how many bottles will she need ?

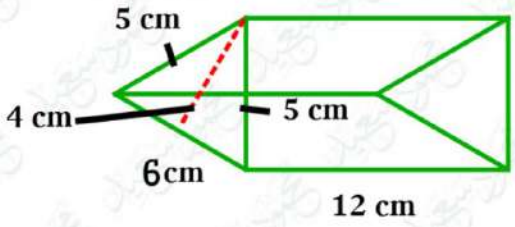
No. of bottles $= 6\div\frac{3}{4} = 8$ bottles

17 find the corresponding height of the parallelogram with area 30 cm2 base length 5 cm

H = A ÷ b

Height = 30÷5 = 6 cm

18 calculate the surface area of the opposite triangular prism.



Face 1 = $12\times 6 = 72\ cm^2$

Face 2 = $12\times 5 = 60\ cm^2$

Face 3 = $12\times 5 = 60\ cm^2$

Base 1 = $\frac{1}{2}\times 6\times 4 = 12\ cm^2$

Base 2 = $\frac{1}{2}\times 6\times 4 = 12\ cm^2$

The surface area = $72+60+60+12+12 = 216\ cm^2$

19 $\frac{x+3}{10} = 50\%$

100(x+3)=500

X+3 =5

X=2

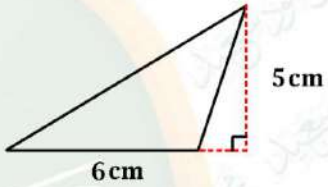
20 Mayar bought a car 660,000L.E she paid 40% of its price , How much money did she pay ?

She paid = 660,000× 40% =264,000L.E

21 Find the value of X : $\frac{X}{15} = \frac{10}{30}$

X=$\frac{150}{30}$=5

22 Find the area of the opposite triangle

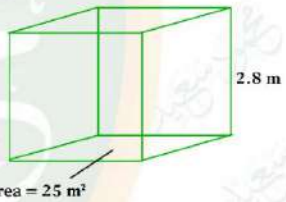


Area of triangle = $\frac{1}{2} \times b \times h$

$= \frac{1}{2} \times 6 \times 5$

$= 3 \times 5 = 15\ cm^2$

23 Find the volume of the opposite cuboid



Volume = Area × height

$= 25 \times 2.8 = 70\ m^3$

24 Find the value of x, if $\frac{x+1}{5} = 40\%$

$\frac{x+1}{5} = \frac{40}{100}$

$x + 1 = \frac{40 \times 5}{100}$

$x + 1 = 2 \rightarrow x = 2 - 1$

$x = 1$

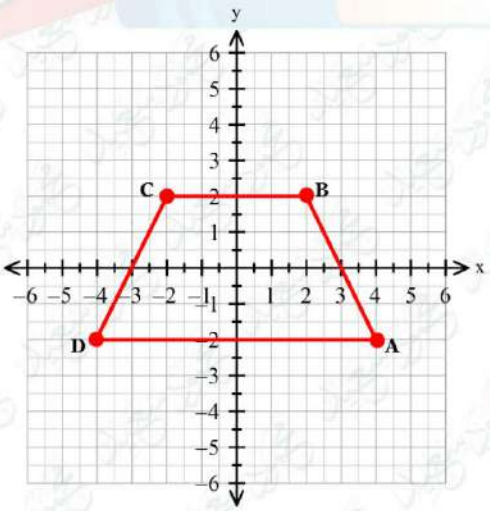
25 The two bases of parallelogram are 10 cm and, 5 cm the smaller height is 5 cm, find the area of the parallelogram

The area of parallelogram = the length of greater base × the length of smaller height

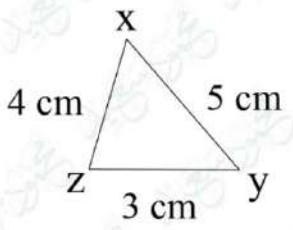
$= 10 \times 5 = 50\ cm^2$

26 plot A (4,-2), B (2,2) , C(-2,2) , D(-4,-2) , What kind of shape do they make ?

ABCD is Trapezium



27 From the opposite triangle, find the ratio between $\overline{xy}$ and the perimeter of the triangle



Perimeter of triangle = $5 + 4 + 3 = 12\ cm$

The ratio between $\overline{xy}$: perimeter

5 : 12

28 If $\frac{4}{9}$ is equivalent to $\frac{x}{18}$, then $x - 4 =$ .....

$\frac{4}{9} = \frac{x}{18}$

$x = \frac{4 \times 18}{9} = 8 \rightarrow x = 8$

Then $x - 4 = 8 - 4 = 4$

29 What type of triangle is it according to the measure of its angles in which its heights intersect out side it?

obtuse triangle

30 A box of the table tennis balls weighs $\frac{10}{18}$ of a kg if each ball weighs $\frac{5}{27}$ of a kg. then how many balls are there in the box?

Number of balls = $\frac{10}{18} \div \frac{5}{27} = \frac{10}{18} \div \frac{27}{5} = 3$ balls

31 Yasin covered $\frac{3}{5}$ of kilometre in 3 laps. What is the distance he covered in one laps?

Distance in one lap = $\frac{3}{5} \div 3 = \frac{3}{5} \times \frac{1}{3} = \frac{1}{5}$

Yasin covered $\frac{1}{5}$ of distance in one lap

32 How many heights are there in a triangle?

Three heights

33 What type of triangle is it according to its measures of its angles in which its heights intersect inside it?

Acute triangle

34 If x (a, 2) and y (3, -2) and given that a < 0 and the length of xy is 6 units, then find the value of a ?

The distance between x and y =

$|x_1| + |x_2| = 6$

$|a| + |-3| = |6|$

Then a = 3 or a = -3

Therefore a < 0

Then a = -3

35 A piece of cloth of 4 meter long was put in water it shrunk by 5%, what is the length after shrinking?

First way:

Length after shrunk = $\frac{5}{100} \times 4 = 3.8\ meter$

Second way :

Before : shrunk : after

100% : 5% : 95%

4 : ..... : .....?....

Length after shrunk = $\frac{4 \times 95\%}{5\%} = \frac{4 \times 95}{5} = 3.8\ meter$

36 Find the area of the rhombus whose perimeter 40 cm and height 8 cm?

Perimeter of the rhombus = $4 \times s$

$40 = 4 \times side\ length$

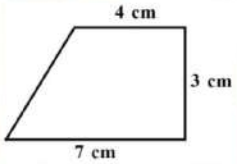
Side length = $40 \div 4 = 10\ cm$

Area of the rhombus = side length × height

Area = $b \times h$

= $10 \times 8 = 80\ cm^2$

37 Find the area of the opposite trapezim



$b_1 = 7\ cm, b_2 = 4\ cm, h = 3\ cm$

$Area\ of\ trapezim = \frac{1}{2} \times (base\ length\ 1 \times base\ length\ 2) \times hight$

A = $\frac{1}{2} \times (b_1 + b_2) \times h$

= $\frac{7+4}{2} \times 3 = \frac{11}{2} \times 3 = \frac{33}{2} = 16.5\ cm^2$

38 If the ratio of a, b = 4 : 5, and a + b = 36, then find the value of a ?

A : b : sum

4 : 5 : 9

? : ? : 36

$9 \times 4 = 36$

Then $a = 4 \times 4 = 16$

Another answer

$a = \frac{4 \times 36}{9} = 16$

Then a = 16

39 If the perimeter of an equilateral triangle is 18 cm and its area is 15 cm^2 , then find its height

The perimeter of equilateral triangle

$P\Delta = 3 \times s$

$s = \frac{p}{3} = \frac{18}{3} = 6\ cm$

The area of triangle $= \frac{1}{2} \times b \times h$

$15 = \frac{1}{2} \times 6 \times\times h$

$h = \frac{2\times15}{6} = 5\ cm$

then the height of $\Delta = 5$ cm

40 On most summer days, camels drink about 30000 malletiers of water. How many litter of water is that?

$30000\ mL \times \frac{1L}{1000mL} = 30\ L$

41 The perimeter of square shaped paper is $\frac{6}{11}$ m. find the length of each side of the paper

The length of each side = $\frac{6}{11} \div 4 = \frac{6}{11} \times \frac{1}{4} = \frac{3}{22}\ m$

42 May divided 127.5 L.E among her three sons. Find the share of each one

$127.5 \div 3 = 42.5$ L. E

43 Find the value of m, if $\frac{1}{5} \div m = 5$

$\frac{1}{5} \div 5 = m$

$\frac{1}{5} \times \frac{1}{5} = m$

$m = \frac{1}{25}$

44 Write the ratio 4 : 6 in two different ways?

First way 4 to 6

Second way $\frac{4}{6}$

47 Is $\frac{1km}{100m}$ a conversion factor

Not conversion factor

48 Mona has 60 L.E she spent $\frac{3}{5}$ of what she has what is the percentage of the mony she spent?

The percentage = $\frac{3}{5} \times 100\% = 60\%$

49 Ahmed bought a T.V set. He was a 10% discount of its marked since, was 10000 L.E, find its price after discount

$10\ \%\ of\ 10000 = \frac{10}{100} \times 10000 = 1000$

The price after discount = 10000 – 1000 = 9000 L.E

50 $moving\ the\ point\ (3,4) 3\ units\ to\ the\ right\ and\ 5\ units\ down, then\ what\ is$ end point?

(6, -1)

51 If the point (-1, 4) is the image of point (a, b) by reflection in y-axis, then, what is the value of a + b ?

The point (a, b) = (1, 4)

a + b = 1 + 4 = 5

52 Find the distance between the two points (-2, 3) and (-2, 1)

The two point are in the same quadrant

So, the distance = $|3| - |1| = 2\ units$

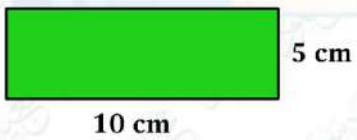
53 If the lunch bill for you and your friend is EGP 300 and the sales tax rate is 5% and a 10% service charge is added. Calculate the totel amount of lunch?

$5\% + 10\% = 15\%$

$15\% \times 300 = \frac{15}{100} \times 300 = 45\ L.E$

Total amount = $300 + 45 = 345\ L.E$

54 Find the ratio between the length and perimeter in the opposite rectangle



Perimeter of rectangle =

$= 2(L + w)$

$= 2(10 + 5) = 2 \times 15 = 30\ cm$

Ratio between length and perimeter

Length : perimeter

10 : 30

1 : 3

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق