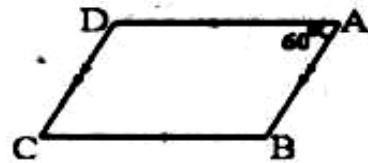


[21] In a parallelogram, each two opposite sides are
and in length.

[22] A parallelogram is a rhombus when its two diagonals are

[23] In the figure below: ABCD is parallelogram and

$m(\angle A) = 60^\circ$, then $m(\angle B) = \dots$



[24]  (in the same pattern)

[25] $6\,500\text{ dm}^3 = \dots\dots\dots\text{ m}^3$

[26] The volume of a cuboid = \times

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[27] A cuboid whose volume is 400 cm^3 , its length is 8 cm and its width is 5 cm,
then its height equals cm.

[28] If the sum of edge lengths of a cube is 36 cm, then its volume is cm^3 .

[29] The perimeter of a cube base is 36 cm, then its volume = cm^3

[30] The volume of a cube whose base area is $9\text{ cm}^2 = \dots\dots\dots\text{ cm}^3$.

[31] The range of the values 19, 14, 9 and 3 is

[32] The kinds of statistic data are and

(2) Choose the correct answer:

[1] The ratio between the two numbers 16 and 64 = : ($\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{3}$ or $\frac{2}{3}$)

[2] $\frac{3}{2} : \frac{7}{2} = \dots\dots : \dots\dots$ (3 : 7, 9 : 14, 7 : 3 or 3 : 2)

[3] The ratio between the perimeter of any equilateral triangle and
its side length = (1 : 4, 1 : 3, 3 : 1 or 4 : 1)

[4] A rectangle which length is 9 cm and its area is 54 cm^2 , then the ratio
between its length and width = : (1 : 6, 6 : 1, 3 : 2 or 2 : 1)

[5] If the length of a rectangle is 6 cm and its area is 24 cm^2 , then the ratio
between its perimeter and its length is (4 : 1, 3 : 2, 12 : 5 or 10 : 3)

[6] $\frac{2}{3} : 3\frac{1}{3} = \dots\dots : \dots\dots$ (1 : 5, 2 : 5, 2 : 15 or 1 : 2)

- [7] ~~400 grams : 2 kilograms = :~~ (1 : 2 , 1 : 4 , 1 : 8 or 1 : 5)
- [8] $\frac{1}{2}$ day : 18 hours = (3 : 2 , 4 : 3 , 2 : 3 or 1 : 9)
- [9] The ratio between 12 kirats to $1\frac{1}{2}$ feddan = :
(12 : 1.5 , 4 : 1 , 1 : 3 or 3 : 1)
- [10] 125 piastres : 5 pounds = (1 : 4 , 4 : 1 , 1 : 5 or 5 : 1)
- [11] 75 cm : $2\frac{1}{4}$ m = ($\frac{1}{3}$ cm , $\frac{1}{3}$ meter , $\frac{1}{3}$ or 3)
- [12] The ratio between 25 seconds and $\frac{1}{3}$ minute = :
(5 : 4 , 4 : 5 , 3 : 5 or 5 : 3)
- [13] If the sum of two numbers = 105 and the ratio between them
2 : 3, then the biggest one = (21 , 42 , 63 or 84)
- [14] If A : B = 5 : 6 and B : C = 3 : 4, then A : C = :
(5 : 4 . 5 : 3 , 5 : 8 or 3 : 5)
- [15] Hassan spends L.E 75 within three days, then the rate of what
Hassan spends = L.E/day. (25 , 30 , 45 or 135)
- [16] If a car covered 180 km in 3 hours, then the speed of this car =
..... km/hour. (60 . 80 , 90 or 540)
- [17] If two ratios are equal, then the product of the extremes
the product of the means. (> , < , = or ≠)
- [18] If $\frac{x+2}{8} = \frac{3}{4}$, then x = (2 , 4 , 6 or 8)
- [19] If the numbers 6 , 8 , 3 and x are proportional, then x = ... (4 , 5 , 6 or 8)
- [20] If the drawing length = 2 cm and the real length = 20 metres,
then the drawing scale equals (1 : 10, 1 : 100, 1 : 1000 or 1 : 10000)
- [21] $\frac{9}{20} = \dots\dots \%$ (40 , 45 , 60 or 90)
- [22] 0.625 = % (0.625 , 6.25 , 62.5 or 625)
- [23] $10\% + \frac{9}{20} = \dots\dots \%$ (35 , 45 , 55 or 65)
- [24] If $\frac{x}{5} = 10\%$, then x = ($\frac{1}{4}$, $\frac{1}{2}$, 2 or 5)
- [25] If 35% of a number = 140, then the number is
(40 , 140 , 400 or 500)
- [26] The two diagonals are perpendicular and equal in length
in (rectangle, square, parallelogram or rhombus)

[27] A parallelogram in which its diagonals are perpendicular and not equal in length is called

(rectangle, square, parallelogram or rhombus)

[28] The number of edges of the cube = edges. (6, 8, 10 or 12)

[29] The volume of a cuboid whose dimensions are 2 cm, 3 cm and 5 cm = cm³. (10, 25, 30 or 50)

[30] The perimeter of one face of a cube is 4 cm, then its volume is cm³. (1, 4, 6 or 12)

story problems

- [1] if the ratio between the age of a child and the age of his father 2 : 13 if the child's age is 6 years . find the father's age ?
- [2] two wire pieces , the ratio between their lengths is 6 : 8 , if the sum of their lengths is 126 meters , calculate the length of each piece ?
- [3] the ratio between the height of two buildings in a town is 7 : 4 , if the difference between their heights is 9 meters . find the height of each one ?
- [4] if the ratio between the two acute angles in a right – angled triangle 2 : 1 find the measure of each angle
- [5] the ratio among the measures of the angles of a triangle is 2 : 3 : 4 find the measure of each angle ?
- [6] A factory produces 5000 juice cans in 8 hours . find the production rate ?
- [7] the distance between two cities 180 km , and the drawing scale 1 : 9000000 find the distance between them on the map ?
- [8] if the length of an insect in a picture 2.5 cm , with a drawing scale 100 : 1 what is the real length ?
- [9] A car consumes 20 litres of fuel to cover 210 km , How many litres of fuel needed to cover 630 km ?

- [10] find the volume of a cube which the sum of edge lengths is 96 cm ?
- [11] find the volume of a cube if the perimeter of its base 28 cm ?
- [13] which is greater in volume a cuboid of dimensions 4 , 5 , 7 cm or a cube of edge length 6 cm
- [14] A sweet case in the shape of a cuboid its dimensions are 21 , 18 , 6 cm it is wanted to fill it with pieces of chocolates each of them is a cuboid of dimensions 3 , 3 , 1 cm . calculate the number of pieces of chocolates ?
- [15] A cube of metal its edge length 12 cm , is needed to be melted and converted into ingots alloys in the form of a cuboid with dimensions 4 , 3 , 6 cm . calculate the number of alloys
- [16] two persons started a commercial business the first paid L E 5000 and the second paid L E 8000 , at the end of the year the profit was L E 3900 . find the share of each
- [17] A man sold his car after one year of using it with price L E 52000 , if its buying price was L E 65000 , find the percentage of his loss ?
- [18] Nahed bought an automatic washing machine for L E 3600 , and the discount was 10 % find the price before discount ?
- [19] A primary school has 540 pupils , if the ratio between the number of boys to girls is 4 : 5 calculate the number of boys and girls ?
- [20] a container has 12 liters of honey , it is wanted to put them in smaller bottles , the capacity of each one is 400 cm³ . calculate the number of bottles ?
- [21] A cuboid of volume 1440 cm³ , and its height is 16 cm . find the area of its base ?
- [22] A cube shaped vessel , its internal edge 20 cm , it is filled with food oil .
a – calculate the capacity of the vessel
b – if the price of one litre of food oil 9.5 pounds . calculate the price of all oil
- [23] A trader sold goods for L E 550 with a profit 10 % , find the cost price of goods ?

[18] The following table shows the marks of 100 students in one month in maths:

Marks	20–	30–	40–	50–	total
frequency	15	30	40	15	100

(1) What is the number of students who recorded less than 40 marks?

(2) Draw the frequency curve of the distribution.