Question Bank for grade 7

1) Encircle the correct option

a) The ratio of Rs 8 to 80 paisa is_____

I. 1:10

II. 10:1

III. 1:1

IV. 100:1

b) The sum of exterior angles of a polygon is

I. 180°

II. 270°

III. 360°

IV. 540°

c) Which of the following letters of English alphabets has more than 2 lines of symmetry?

I. Z

II. O

III. E

IV. H

d) In what ratio must 54 be decreased to become 42?

I. 7 : 9

II. 9 : 7

III. 7 : 6

IV. 9 : 6

e) How much water is required to fill a tank which has a capacity of 6 litres when 3500ml is already there in the tank?

I. 3000 litres

II. 3000ml

III. 2500 litres

IV. 2500 ml

Question Bank for grade 7

f) The mode of the data 13, 16, 12, 14, 19, 12, 14, 13, 14 is

I. 16

II. 12

III. 14

IV. 13

g) Sam scored 2 goals in the first and 4 goals in the second match, the percentage increase in goals scored is

I. 100%

II. 75%

III. 50%

IV. 25%

h) England is 5 hours behind Pakistan. When it is midnight in Pakistan the time in England is

I. 12 am

II. 12am

III. 7 pm

IV. 6 pm

i) The simplest form of the ratio 24 : 48 : 6 is

I. 12 : 24 : 6

II. 8 : 16 : 2

III. 4 : 12 : 1

IV. 4 : 8 : 1

j) The sum of two complementary angles is

I. 180°

II. 90°

III. 270°

IV. 360°

Question Bank for grade 7

Q2.

a) Convert

I. 1545 to 12 hour clock _____

II. 6:30 pm to 24 hour clock _____

b) Calculate the percentage when an amount decreases from 162 to 150.

c) 30% of a number is 1200. What is the original number?

d) Calculate the surface area of a cube whose volume is $125cm^3$.

Question Bank for grade 7

Q3.

a) Express the following quantities as a ratio in its simplest form.

I. Grams in a kilogram and centimeters in a meter

II. Angles of a quadrilateral and sides of a hexagon

b) For the following data. Find

6, 10, 10, 12, 13, 15

I.Mean

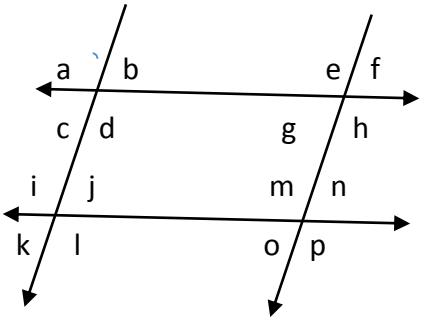
II. Median

c) Find the value of consumption of petrol in litres per km if a car uses 91 litres for 7 km.

Question Bank for grade 7

Q 4.

a) From the given figure find the value of the stated angles



If a= 62^o and e=103^o

i=_____

l=_____

g=_____

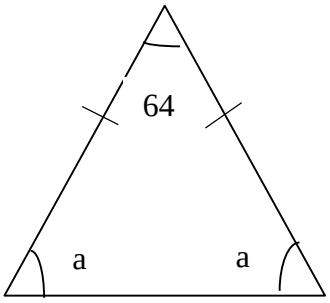
h=_____

b) Calculate the sum of interior angles of

I. Pentagon

II. Octagon

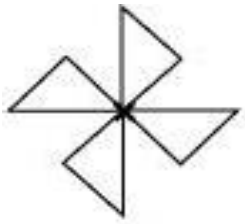
c) Calculate the value of the base angles of an isosceles triangle

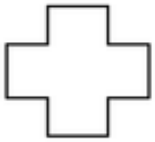


Question Bank for grade 7

Q 5.

a) Write down the order of rotational symmetry for the following figures.





b) Work out the value of x for the given equation:

I. y= 2 x+ z when y= 10 and z= 3

Question Bank for grade 7

a) Create an equation for the given expressions.

I. Six times a number is 10 more than the number

II. Subtracting 5 from p gives the result 2

Q 6.

a) The price of a car is $90000, find the new price if

I. A discount of 12% is given after the first year

II. Further discount of 10% is given after the second year.

b) A rectangular piece of land is 4.5 km long and 2.5 km wide. Find the ratio of

I. Its width to its length.

II. length to its perimeter.

Q 7.

a) Last month Ahmed's call meter for his phone read 12526 units. This month it read 12926 units.

I. How many units did he use over the month?

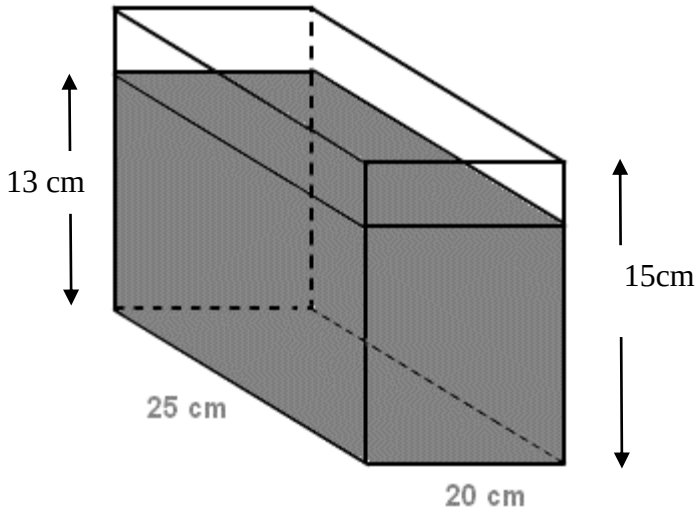
II. If he pays $25 for every 50 units used, how much must he pay for the use of the phone this month?

b) Find two consecutive numbers such that the sum of the larger number and three times the smaller number is 41.

c) A car leaves London at 9:15 pm on Wednesday and arrives at Manchester 5 ½ hours later. At what time does the car arrive at its destination?

Q 8.

a) An open rectangular tank of length 25 cm width 20 cm and height 15 cm contains water upto a height of 13 cm. Calculate



Question Bank for grade 7

I. The volume of the water in litres.

II. The total surface area of the tank in contact with the water.

b) The interior angle of a regular polygon is 162^{o}. Calculate the number of sides of the polygon.

c) Calculate the exterior angle in a 13-sided polygon.

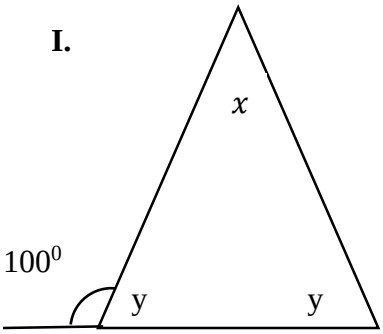
Question Bank for grade 7

Q 9.

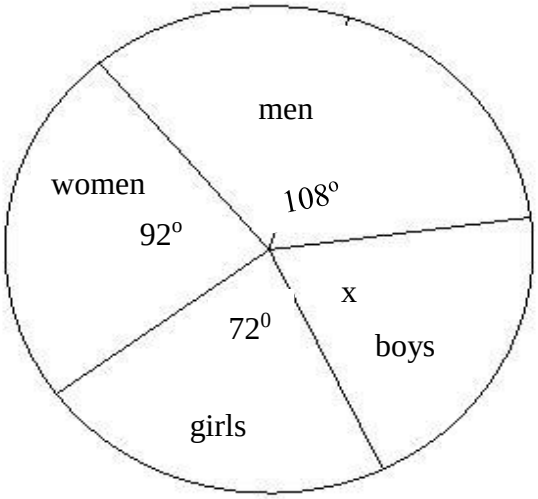
a) Construct a perpendicular bisector of a line segment measuring 6.2cm.

b) Find the value of x and y in the following diagram.

I.



Q 10.



a) The pie chart shows the number of people taking part in a marathon. If 656 girls took part in the marathon then find,

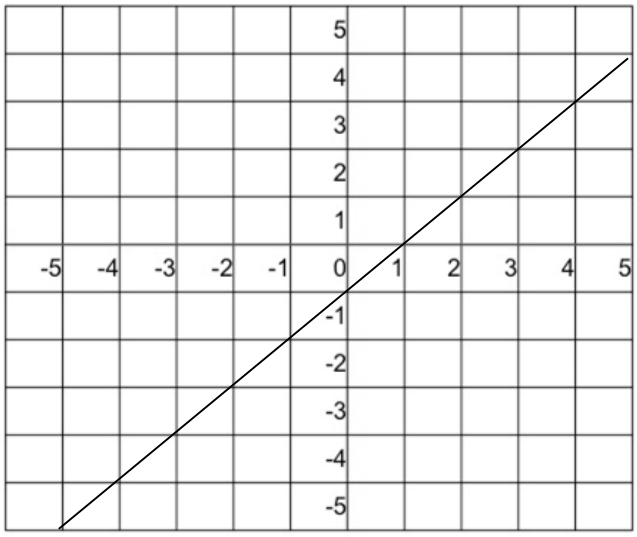
I. The value of x

II. The percentage of participants who were men

Question Bank for grade 7

b)

I. From the given graph, fill in the unknown values for the function y=x - 1.



x	-1		1	
y		3		-4

II. Find the gradient of the graph given above.