

Question 1

(10)

Fill in the blanks.

- a) The HCF of two prime numbers is always _____.
- b) The complement of 65° is _____.
- c) _____ is the only even prime number.
- d) $\frac{3}{100} =$ _____ %.
- e) If *Selling Price* < *Cost Price*, Loss = _____.
- f) Angle measuring exactly 180° is called a _____ angle.
- g) If two angles have a common vertex and a common side, they are called _____ angles.
- h) The ninth multiple of 17 is _____.
- i) Lines which never meet and are always at an equal distance from each other are called _____ lines.
- j) $0.1 \times 0.1 \times 0.1 =$ _____

Question 2

- a) Arrange the following in ascending order :

111.12 ; 11.01 ; 110.18 ; 96.81 ; 69.18 ..

- b) Add the following:

16.523 ; 8.09 ; 207.65

c) Multiply: 0.47×135

(3)

d) Divide : 98.58 by 12

(3)

Question 3

a) Find the average of all even numbers between 19 and 31.

(3)

b) Express 200 g as a percentage of 4 kg.

(2)

c) Kumar bought a mobile phone for ₹ 7500 and sold it for ₹ 7800. Find its profit and the profit percentage.

(4)

Question 4

a) Find the LCM by **division** method:

(4)

9, 12, 18, 24.

b) Find the HCF by **prime factor** method:

(4)

45, 60, 75.

c) The HCF of two numbers is 6 and their LCM is 72. If one number is 24. find the other number.

(4)

Question 5

a) Define *supplementary angles* .

(2)

b) Find the Supplement of

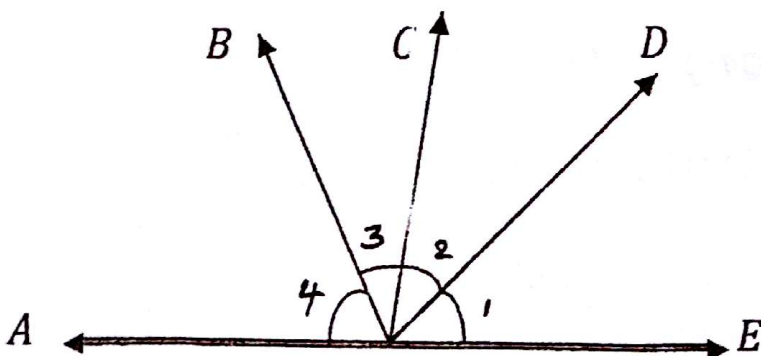
(i) $142\frac{1}{2}^\circ$

(ii) 75°

(2)

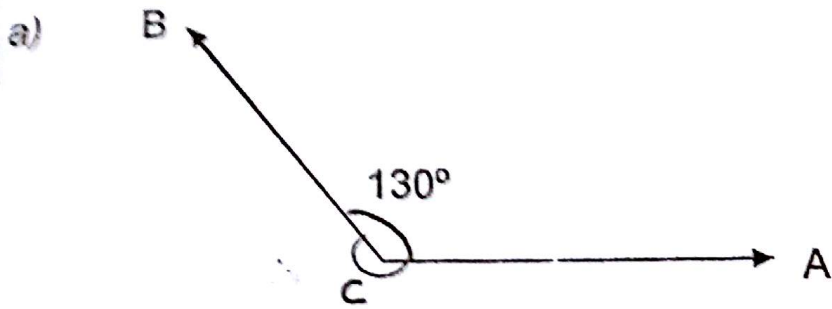
c) In the figure given below, $\angle 1 + \angle 2 + \angle 3 = 125^\circ$.

(4)



Question 6

(4)



In the above figure, what do you call the angle marked 'c'. Find $\angle c$. Give reason.

b) Draw an angle of 110° using a protractor. (3)

Question 7

a) Find the time taken by a car that travels at 50 km/hr speed to cover 150 km . (4)

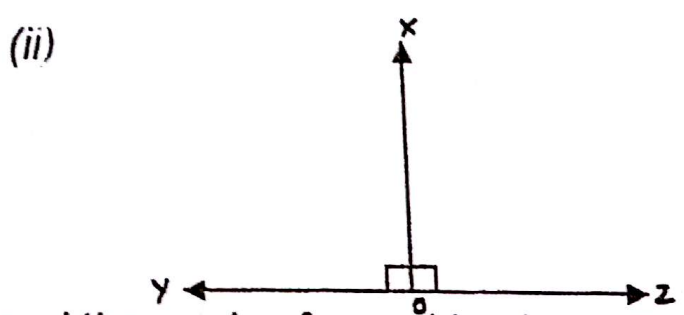
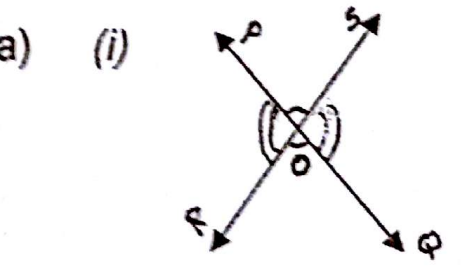
b) Find the speed of the train that covered a distance of 420 km in 4 hrs . (4)

c) Express the speed : (4)

(i) 36 km/hr in m/sec .

(ii) 30 m/sec in km/hr .

Question 8



Identify the type of lines and the angles formed in above lines.

b) For each of the following angles, name the vertex and arms. Also, write whether it is acute angle, obtuse angle or right angle.

