



Exercise 5A

Q9

Answer :

There are total 9 natural numbers from 2 to 10. They are 2, 3, 4, 5, 6, 7, 8, 9, 10.

Out of these natural numbers, 2, 3, 5, 7 are the prime numbers.

\therefore The required fraction = $\frac{4}{9}$.

Q10

Answer :

$$(i) \frac{2}{3} \text{ of } 15 \text{ pens} = \left(\frac{2}{\cancel{3}_1} \times \frac{\cancel{15}^5}{1} \right) = 10 \text{ pens}$$

$$(ii) \frac{2}{3} \text{ of } 27 \text{ balls} = \left(\frac{2}{\cancel{3}_1} \times \frac{\cancel{27}^9}{1} \right) = 18 \text{ balls}$$

$$(iii) \frac{2}{3} \text{ of } 36 \text{ balloons} = \left(\frac{2}{\cancel{3}_1} \times \frac{\cancel{36}^{12}}{1} \right) = 24 \text{ balloons}$$

Q11

Answer :

$$(i) \frac{3}{4} \text{ of } 16 \text{ cups} = \left(\frac{3}{\cancel{4}_1} \times \frac{\cancel{16}^4}{1} \right) = 12 \text{ cups}$$

$$(ii) \frac{3}{4} \text{ of } 28 \text{ rackets} = \left(\frac{3}{\cancel{4}_1} \times \frac{\cancel{28}^7}{1} \right) = 21 \text{ rackets}$$

$$(iii) \frac{3}{4} \text{ of } 32 \text{ books} = \left(\frac{3}{\cancel{4}_1} \times \frac{\cancel{32}^8}{1} \right) = 24 \text{ books}$$

Q12

Answer :

Neelam gives $\frac{4}{5}$ of 25 pencils to Meena.

$$\left(\frac{4}{\cancel{5}_1} \times \frac{\cancel{25}^5}{1} \right) = 20 \text{ Pencils}$$

Thus, Meena gets 20 pencils.

\therefore Number of pencils left with Neelam = $25 - 20 = 5$ pencils

Thus, 5 pencils are left with Neelam.

Q13

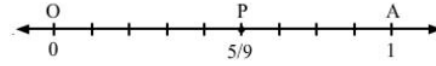
Answer :

Draw a 0 to 1 on a number line. Label point 1 as A and mark the starting point as O.

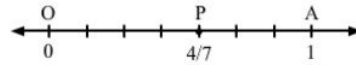
(i) Divide the number line from 0 to 1 into 8 equal parts and take out 3 parts from it to reach point P.



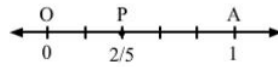
(ii) Divide the number line from 0 to 1 into 9 equal parts and take out 5 parts from it to reach point P.



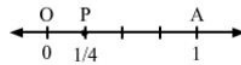
(iii) Divide the number line from 0 to 1 into 7 equal parts and take out 4 parts from it to reach point P.



(iv) Divide the number line from 0 to 1 into 5 equal parts and take out 2 parts from it to reach point P.



(v) Divide the number line from 0 to 1 into 4 equal parts and take out 1 part from it to reach point P.



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