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(Affiliated to CBSE up to +2 Level)

CLASS: VII

SUB.: MATHS (NCERT BASED)

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Question 1. Convert the given fractional numbers to per cents:

(a) $\frac{1}{8}$ (b) $\frac{5}{4}$ (c) $\frac{3}{40}$ (d) $\frac{2}{7}$

Solution:

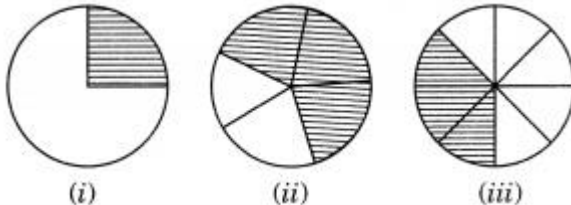
(a) $\frac{1}{8} = \frac{1 \times 100}{8 \times 100} = \frac{100}{8} \% = 12.5\% \text{ or } 12\frac{1}{2}\%$

Question 2. Convert the given decimal fractions to per cents:

(a) 0.65 (b) 2.1 (c) 0.02 (d) 12.35

Solution: (a) $0.65 = 0.65 \times 100 = 65\%$

Question 3. Estimate what part of the figures is coloured and hence find the per cent which is coloured.



Solution: (i) Fraction of coloured part = $\frac{1}{4}$

∴ Percentage of coloured parts = $\frac{1}{4} \times 100 = 25\%$

$$= \frac{1}{4} \times \frac{100}{100} = \frac{100}{4} \% = 25\%$$

Question 4. Find:

(a) 15% of 250 (b) 1% of 1 hour (c) 20% of ₹ 2500 (d) 75% of 1 kg

Solution: (a) $15\% \text{ of } 250 = \frac{15}{100} \times 250 = 75/2 = 37.5$

Question 5. Find the whole quantity if

(a) 5% of it is 600

(b) 12% of it is? 1080

(c) 40% of it is 500 km

(d) 70% of it is 14 minutes

(e) 8% of it is 40 litres

Solution: Let the required whole quantity be x.

(a) 5% of x = 600

$$\Rightarrow \frac{5}{100} \times x = 600$$

$$\Rightarrow x = \frac{600 \times 100}{5} = 12000$$

Question 6. Convert given per cents to decimal fractions and also to fractions in simplest forms:

(a) 25%

(b) 150%

(c) 20%

(d) 5%

Question 7. In a city, 30% are females, 40% are males and remaining are children.

What per cent are children?

Solution: Given: 30% are females 40% are males

Total Percentage of females and males

$$= 30\% + 40\% = 70\%$$

∴ Percentage of children

$$= (100 - 70)\% = 30\%$$

Question 8. Out of 15,000 voters in a constituency, 60% voted. Find the Percentage of voters who did not vote. Can you now find how many actually did not vote?

Solution: Total number of voters = 15,000

Percentage of the voters who voted = 60%

∴ Percentage of the voters who did not vote

$$= (100 - 60)\% = 40\%$$

Actual number of voters who did not vote

$$= 40\% \text{ of } 15,000$$

$$= \frac{40}{100} \times 15,000 = 6,000$$