

## Chapter 8: Percentage

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Q1. Express each of the following percentages as a fraction:

(a) 28 %

$$28 \% = \frac{\cancel{28}^7}{\cancel{100}_{25}} = \frac{7}{25} \text{ (simplifying using 4)}$$

(c) 12.4 %

$$12.4 \% = \frac{12.4}{100}$$

$$\text{We have } 12.4 = \frac{124}{10}$$

$$\text{Hence, } 12.4 \% = \frac{124}{10 \times 100} = \frac{\cancel{124}^{31}}{\cancel{1000}_{250}} = \frac{31}{250} \text{ (simplifying using 4)}$$

Q2. Express each of the following percentages as a decimal:

(a) 4 %

$$4 \% = \frac{4}{100} = 0.04$$

(b) 633 %

$$633 \% = \frac{633}{100} = 6.33$$

Q3. Express each of the following fractions as a percentage:

(c)  $\frac{6}{125}$

$$\frac{6}{125} \times 100\% = \frac{\cancel{600}^{24}}{\cancel{125}_{5}} \% = 4.8 \%$$

(f)  $1\frac{6}{25}$

We have,  $1\frac{6}{25} = \frac{(1 \times 25) + 6}{25} = \frac{25 + 6}{25} = \frac{31}{25}$

$\frac{31}{25} \times 100\% = 31 \times 4\% = 124\%$

Q4. Express each of the following decimals as a percentage:

(b) 0.25

$0.25 = \frac{25}{100} = 25\%$       (OR)

$0.25 \times 100\% = 25\%$       (OR)

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

(d) 0.095

$0.095 \times 100\% = 9.5\%$       (OR)

$\frac{95}{1000} \times 100\% = \frac{95}{10}\% = 9.5\%$