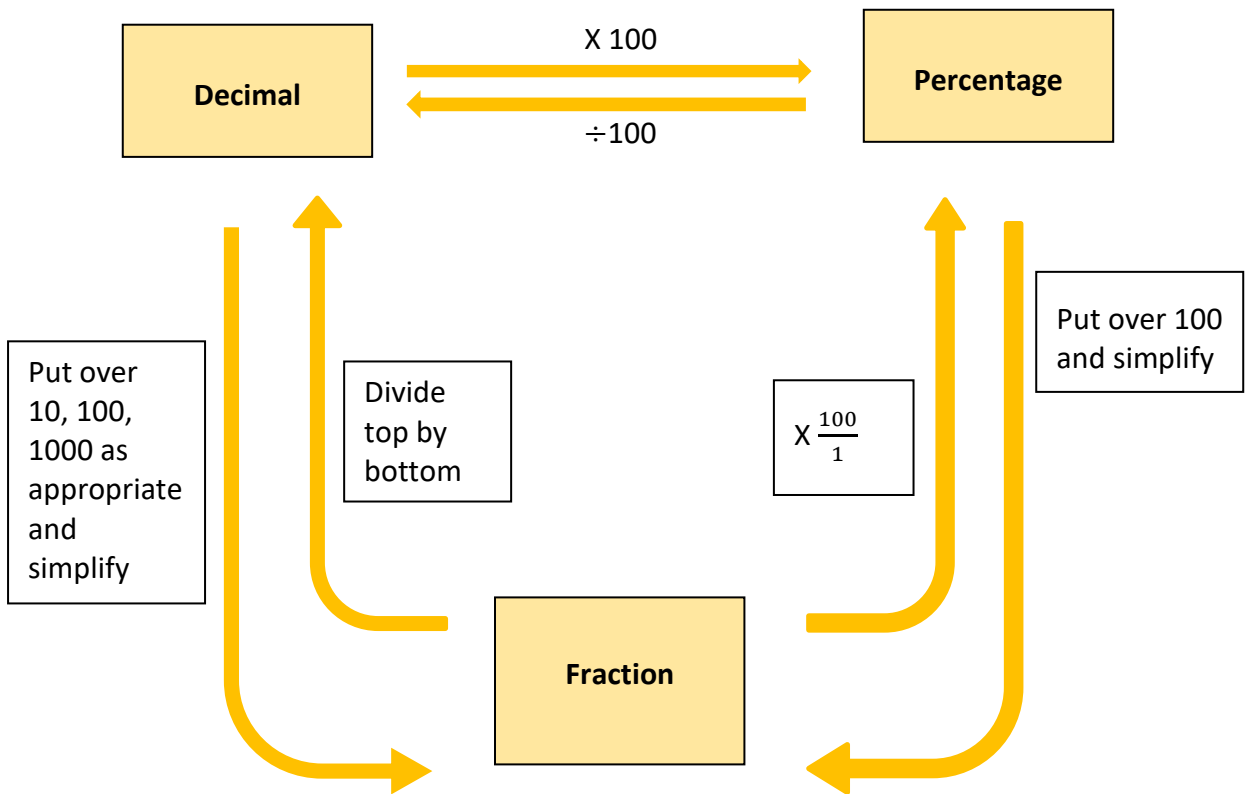




Fraction, Decimal & Percentage Conversions



Examples

1. Convert 0.73 to a percentage
2. Convert 0.009 to a percentage
3. Convert 28% to a decimal
4. Convert 0.06% to a decimal

$$0.73 \times 100 = 73\%$$
$$0.009 \times 100 = 0.9\%$$
$$28 \div 100 = 0.28$$
$$0.06 \div 100 = 0.0006$$

Exercises

1. Convert to a percentage
 - (a) 0.25
 - (b) 0.13
 - (c) 0.86
 - (d) 0.06

- (e) 0.004
- (f) 0.003
- (g) 0.45



2. Convert to a decimal
- (a) 35% (e) 42%
- (b) 17% (f) 0.01%
- (c) 8% (g) 52%
- (d) 0.05%

Examples

5. Express $\frac{1}{4}$ as a percentage $\frac{1}{4} \times \frac{100}{1} = \frac{100}{4} = 25\%$

6. Express $\frac{3}{5}$ as a percentage $\frac{3}{5} \times \frac{100}{1} = \frac{300}{5} = 60\%$

7. Express 15% as a fraction $\frac{15}{100} = \frac{3}{20}$

8. Express 75% as a fraction $\frac{75}{100} = \frac{3}{4}$

Exercises

3. Express as a percentage
- (a) $\frac{2}{5}$
- (b) $\frac{4}{5}$
- (c) $\frac{7}{10}$
- (d) $\frac{3}{50}$
- (e) $\frac{3}{4}$
4. Express as a fraction
- (a) 25%
- (b) 2%
- (c) 80%
- (d) 13%
- (e) 30%

Examples

9. Express 0.35 as a fraction $0.35 = \frac{35}{100} = \frac{7}{20}$

10. Express 0.08 as a fraction $0.08 = \frac{8}{100} = \frac{2}{25}$

11. Express $\frac{1}{4}$ as a decimal
$$\begin{array}{r} 0.25 \\ 4 \overline{)1.00} \end{array}$$

12. Express $\frac{2}{3}$ as a decimal
$$\begin{array}{r} 0.666\dots \\ 3 \overline{)2.000} \end{array}$$

This rounds to 0.67 (2 decimal places)

**Exercises**

5. Express as a fraction

- (a) 0.25
- (b) 0.75
- (c) 0.6
- (d) 0.17
- (e) 0.45

6. Express as a decimal

- (a) $\frac{3}{4}$
- (b) $\frac{1}{3}$
- (c) $\frac{4}{5}$
- (d) $\frac{3}{5}$
- (e) $\frac{7}{10}$

Answers

- 1. (a) 25%
- (b) 13%
- (c) 86%
- (d) 6%
- (e) 0.4%
- (f) 0.3%
- (g) 45%

- 2. (a) 0.35
- (b) 0.17
- (c) 0.08
- (d) 0.0005
- (e) 0.42
- (f) 0.0001
- (g) 0.52

- 3. (a) 40%
- (b) 80%
- (c) 70%
- (d) 6%
- (e) 75%

- 4. (a) $\frac{25}{100} = \frac{1}{4} = 0.25$
- (b) $\frac{2}{100} = \frac{1}{50} = 0.02$
- (c) $\frac{80}{100} = \frac{4}{5} = 0.8$
- (d) $\frac{13}{100} = 0.13$
- (e) $\frac{30}{100} = \frac{3}{10} = 0.3$

- 5. (a) $\frac{25}{100} = \frac{1}{4}$
- (b) $\frac{75}{100} = \frac{3}{4}$
- (c) $\frac{6}{100} = \frac{3}{50}$
- (d) $\frac{17}{100}$
- (e) $\frac{45}{100} = \frac{9}{20}$

- 6. (a) 0.75
- (b) 0.33 (2 dp)
- (c) 0.8
- (d) 0.6
- (e) 0.7