

**YEAR 7**

Fractions, Decimals and Percentages

Three sections. Show your working for section C; the marks in an exam are for the method as much as the answer.

Name: _____

Date: _____

Score: _____

A. Swapping between them

A percentage is a fraction out of 100. Write it over 100 first, then cancel.

1 Write $\frac{1}{2}$ as a percentage.

2 Write $\frac{1}{4}$ as a percentage.

3 Write $\frac{3}{4}$ as a percentage.

4 Write $\frac{1}{5}$ as a percentage.

5 Write $\frac{2}{5}$ as a percentage.

6 Write $\frac{1}{10}$ as a percentage.

7 Write $\frac{3}{10}$ as a percentage.

8 Write $\frac{1}{8}$ as a percentage.

9 Write 0.35 as a percentage.

10 Write 8% as a decimal.

11 Write 60% as a fraction in its simplest form.

12 Write 0.24 as a fraction in its simplest form.

B. Finding part of an amount

Ten per cent is the whole divided by ten. Build the rest from that.

1 Find 10% of 350

2 Find 50% of 96

3 Find 25% of 160

4 Find 20% of 85

5 Find 5% of 240

6 Find 75% of 48

7 Find 30% of 210

8 Find 15% of 80

9 Find $\frac{2}{3}$ of 51

10 Find $\frac{5}{8}$ of 72

C. In words

Read twice. Decide what the whole is before you start.

1 A jacket costs £60.00 and is reduced by 25%. What is the new price?

2 A class has 30 children and 40% walk to school. How many walk?

3 A test is out of 80 and Sam scores 60. What percentage is that?

4 A phone costs £200.00. VAT of 20% is added. What is the total?

5 Put these in order, smallest first: 0.7, $\frac{3}{5}$, 65%

6 A bag of 24 sweets has $\frac{1}{3}$ red ones. How many are red?