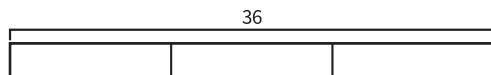


1 Fraction of an amount

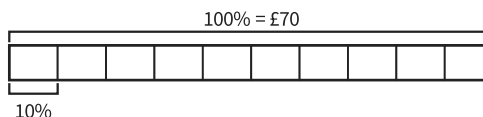
- a) Work out $\frac{2}{3}$ of 36. Use the bar.
- b) A class has 30 students. $\frac{3}{5}$ of them walk to school.
How many walk?



a) $36 \div 3 = 12, 12 \times 2 = 24$
b) $30 \div 5 = 6, 6 \times 3 = 18$

2 Percentage of an amount

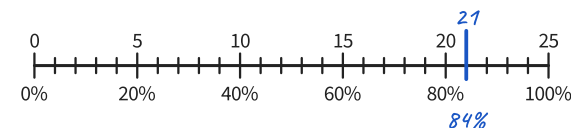
- a) Work out 10% of £70.
b) Work out 30% of £70.



a) $70 \div 10 = £7$
b) $3 \times £7 = £21$

3 One number as a percentage of another

- a) Write 7 out of 10 as a percentage.
b) Tom scores 21 out of 25 in a quiz. Write his score as a percentage.



a) 70%
b) $21 \div 25 \times 100 = 84\%$

4 Percentage increase and decrease

- a) A game costs £40. The price goes up by 10%.
Work out the new price.
b) A jacket costs £80. In a sale, the price is reduced
by 25%. Work out the sale price.

a) $10\% = £4, 40 + 4 = £44$
b) $25\% = £20, 80 - 20 = £60$

5 Percentage profit and loss

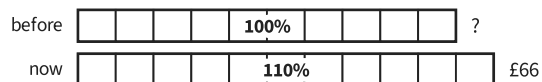
A market stall buys a plant for £20. It sells the plant for £26.

- a) Work out the profit.
b) Write the profit as a percentage of £20.

a) $26 - 20 = £6$
b) $6 \div 20 \times 100 = 30\%$

6 Reverse percentages

- a) A bill is £66 after 10% is added. What was the bill before?
b) In a sale, everything is half price. A lamp costs £35 in the sale. What did it cost before?



a) $110\% = £66, 10\% = £6, 100\% = £60$
b) $35 \times 2 = £70$

7 Simple interest

£300 is saved in an account. It earns 4% simple interest each year.

- a) Work out the interest in 1 year.
b) Work out the interest in 5 years.

a) $1\% = £3, 4\% = £12$
b) $5 \times 12 = £60$

8 Compound growth and decay

- a) £500 is saved. It grows by 10% each year.
Fill in the table.
b) A van is worth £5000. It loses 10% of its value each year.
Work out its value after 2 years.

Start	£500
Year 1	£550
Year 2	£605

a) $500 + 50 = £550, 550 + 55 = £605$
b) $5000 - 500 = 4500, 4500 - 450 = £4050$

Percentages revision mat answers

Foundation B