

1 Fraction of an amount



- a) Work out $\frac{7}{12}$ of 4.8 kg.
- b) Ana spends $\frac{2}{5}$ of her money on a coat, then $\frac{1}{4}$ of what is left on shoes. What fraction of her money is left?

2 Percentage of an amount



- a) Work out 112% of 65 m.
- b) Explain why 18% of 50 is the same as 50% of 18. Use this to work out 18% of 50 in your head.

3 One number as a percentage of another



- a) Write 2.4 kg as a percentage of 600 g.
- b) A team played 25 games. It won 17 and drew 3. What percentage of its games did it lose?

4 Percentage change



- a) Decrease 84 by 12.5%.
- b) A price rose from £36 to £45. Mo says it rose by 20%. Explain his mistake and find the right answer.

Percentages, growth and decay

revision mat



5 Reverse percentages



- a) With 15% off in a sale, a jacket costs £59.50. What was its price before the sale?
- b) A train fare rises by 4% to £20.28. By how much did the fare rise?

6 Simple interest



- a) £650 is invested at 2.8% simple interest a year. Work out its value after 5 years.
- b) £1200 earns £126 simple interest in 3 years. Work out the rate of interest a year.

7 Compound growth



- a) £3200 is invested at 4.5% compound interest a year. Work out its value after 3 years.
- b) What single percentage increase is the same as 4.5% a year for 3 years? Give your answer to 1 decimal place.

8 Compound decay



A car worth £18 500 loses 15% of its value each year.

- a) Work out its value after 3 years.
- b) Ella says that after 2 years it has lost 30% of its value. Explain why she is wrong.