

Proportion

- 1 Twelve bars of chocolate cost £18.24. Calculate the cost of 26 bars of chocolate.
- 2 Six workmen take four hours to dig a hole. How long would it take nine workmen to dig a hole the same size if they work at the same rate?
- 3 Six robots build 5 cars in one day. How long would it take ten robots to build five cars?
- 4 It takes 3.6kg wheat to brew four pints of beer. How many pints of beer can be brewed with 108 kg of wheat?
- 5 8 litres of water are needed to make 9 litres of juice. How many litres of water are needed to make thirty five litres of juice?

- 6 The table below shows two items that are directly proportional. Copy and fill out the rest of the table.

| | | | | | | | | |
|---|---|----|----|----|----|----|----|----|
| A | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 |
| B | | | | | | 66 | | |

- 7 The table below shows two items that are directly proportional to each other. Copy out and complete the table.

| | | | | | | | | | |
|---|---|----|----|----|----|----|----|----|----|
| A | 9 | 15 | 18 | 24 | 30 | 39 | 42 | 48 | 54 |
| B | | | | 18 | | | | | |

- 8 It takes 5 hours for six people to move some rubble. How long would it take for ten people to move four times as much rubble?
- 9 At a travel money exchange shop, £1.00 buys \$1.51. How much money would it take to purchase the following number of dollars? (To the nearest penny)
 - a. \$148.00
 - b. \$900.00
 - c. \$83.00
 - d. \$2800.00
 - e. \$79.00
 - f. \$850.00
- 10 How much would it cost to purchase the following amounts if \$1.27 purchased £1.00? (To the nearest cent)
 - a. £80.00
 - b. £750.00
 - c. £980.00
 - d. £2,750.00
 - e. £5,904.87
 - f. £683.93
- 11 Six music downloads cost £4.74. How much would ten music downloads cost?
- 12 A car does 404 miles on £75 worth of fuel. Assuming the same driving conditions, how many miles would the same car cover with £120 worth of fuel?