

Proportion

- 1 Twelve bars of chocolate cost £8.64. Calculate the cost of 17 bars of chocolate.
- 2 Ten workmen take four hours to dig a hole. How long would it take 8 workmen to dig a hole the same size if they work at the same rate?
- 3 Eight robots build 5 cars in one day. How long would it take ten robots to build five cars?
- 4 It takes 2.7kg wheat to brew three pints of beer. How many pints of beer can be brewed with 99kg of wheat?
- 5 6 litres of water are needed to make 7 litres of juice. How many litres of water are needed to make twenty-four and a half 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						30		

- 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				56					

- 8 It takes 2 hours for five 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 \$1.48. 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 \$1.36 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 £3.78. How much would ten music downloads cost?
- 12 A car does 350 miles on £65 worth of fuel. Assuming the same driving conditions, how many miles would the same car cover with £80 worth of fuel?

Answers

- 1 £12.24
- 2 5 hours
- 3 19 hours 12 minutes
- 4 110 pints of beer
- 5 21 litres of water
- 6

A	7	14	21	28	35	42	49	56
B	5	10	15	20	25	30	35	40

7

A	9	15	18	24	30	39	42	48	54
B	21	35	42	56	70	91	98	112	126

8 4 hours

9

- | | | |
|------------|--------------|------------|
| a. £100.00 | c. £56.08 | e. £53.38 |
| b. £698.11 | d. £1,891.89 | f. £574.32 |

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| a. \$108.80 | c. \$1,332.80 | e. \$8,030.62 |
| b. \$1,020.00 | d. \$3,740.00 | f. \$930.14 |

11 £6.30

12 430.7692308 miles