

1) a) 120000

b) 113

c) 20

d) 0.04

2 a) $4x = 36$
 $x = 9$

b) $7x = 56$
 $x = 8$

c) $6x = 51$
 $x = 17/2$

$x = 8 \frac{1}{2}$

d) $7x = 30$
 $x = \frac{30}{7}$

3) 2, 3, 5
50%

$x = 4 \frac{2}{4}$

b) 10% = 1600
20% = 3200

Car £ 12800

4 a) £1.80

b) \$66

c) 28 kg

d) .30

e) 0.025

f) 50

5 a) $\frac{12}{15} = \frac{4}{5} = 80\%$

$\frac{36}{50} = 72\%$

b) $b : g$
 $2 : 3$
 $12 : \underline{\underline{18}}$

6 a) 1

b) 14

c) -15

d) 1

e) 48

f) -8

g) 12

h) -140

i) $16 + 3$
 $= \underline{\underline{19}}$

7) $680 \div 20 = 34$

8) $b : g$
 $150 : 250$
 $15 : 25$
 $3 : 5$

9) £691.20

10) $V = 80 \times 20 \times 25$
 $= 40000 \text{ cm}^3$
 $= 40 \text{ litres}$

75% of 40 = 30l

11) $2x = 8$
 $x = 4$
 $3(4)^2 + (3 \times 4)^2$
 $= 48 + 144$
 $= \underline{\underline{192}}$

12) 2, 3, 5, 7, 11, 13, 17, 19
 $\frac{8}{20} = \frac{40}{100} = 40\%$