

## S1/2 HOMEWORK 12

1) a)  $89\% = 0.89 = \frac{89}{100}$

b)  $23\% = 0.23 = \frac{23}{100}$

c)  $14\% = 0.14 = \frac{14}{100} = \frac{7}{50}$

d)  $46\% = 0.46 = \frac{46}{100} = \frac{23}{50}$

2) a)  $\frac{3}{50} \stackrel{\times 2}{=} \frac{6}{100} = 6\% = 0.06$

b)  $\frac{18}{25} \stackrel{\times 4}{=} \frac{72}{100} = 72\% = 0.72$

c)  $\frac{9}{10} \stackrel{\times 10}{=} \frac{90}{100} = 90\% = 0.90$  or  $0.9$

d)  $\frac{14}{20} \stackrel{\times 5}{=} \frac{70}{100} = 70\% = 0.70$  or  $0.7$

3) a) 25% of £380  
( $\div 4$ )  
$$\begin{array}{r} 95 \\ 4 \overline{) 380} \\ \underline{40} \phantom{0} \\ 80 \\ \underline{80} \\ 0 \end{array}$$
  
= £95

b) 50% of 1704ml  
( $\div 2$ )  
$$\begin{array}{r} 852 \\ 2 \overline{) 1704} \\ \underline{20} \phantom{0} \\ 70 \phantom{0} \\ \underline{70} \phantom{0} \\ 4 \phantom{0} \\ \underline{4} \\ 0 \end{array}$$
  
= 852ml

c) 75% of \$348  
( $\div 4 \times 3$ )  
$$\begin{array}{r} 87 \\ 4 \overline{) 348} \\ \underline{40} \phantom{0} \\ 8 \phantom{0} \\ \underline{8} \\ 0 \end{array}$$
  
$$\begin{array}{r} 87 \\ \times 3 \\ \hline 261 \end{array}$$
  
= \$261

d)  $33\frac{1}{3}\%$  of 288kg  
( $\div 3$ )  
$$\begin{array}{r} 96 \\ 3 \overline{) 288} \\ \underline{30} \phantom{0} \\ 8 \phantom{0} \\ \underline{8} \\ 0 \end{array}$$
  
= 96kg

e) 90% of 345 l

$$10\% (\div 10) = 34.5$$

$$\begin{array}{r} \times 9 \\ \hline 90\% \end{array}$$

$$\begin{array}{r} \phantom{3} \times 49 \\ \hline 310.5 \end{array}$$

= 310.5 l

f) 3% of 700 g

$$1\% (\div 100) = 7$$

$$\begin{array}{r} \times 3 \\ \hline 3\% \end{array}$$

$$\begin{array}{r} \phantom{7} \times 3 \\ \hline 21 \end{array}$$

= 21 g

4)

CALC

230 x 0.35 = 80.5

230 + 80.5 = 310.5 g

NON CALC

$$10\% (-10) = 23$$

$$\begin{array}{r} \times 3 \\ \hline 69 \leftarrow \end{array}$$

5% (10% ÷ 2) = 11.5 ←

$$35\% = 69 + 11.5$$

$$= 80.5$$

230 + 80.5 = 310.5 g

5)

CALC

45 x 0.18 = 8.10

45 - 8.10 = £36.90

NON CALC

10% = 4.5

$$1\% = 0.45$$

$$\begin{array}{r} \phantom{3} \times 8 \\ \hline 3.60 \end{array}$$

3.60 + 4.5 = 8.10

45 - 8.10 = £36.90

6)

SOFAS R US

1200 25% off  
(÷ 4)

$$\begin{array}{r} 300 \\ 4 \overline{) 1200} \end{array}$$

1200 - 300 = £900

Best Deal  
★

FSD

1200 1/5 off

$$\begin{array}{r} 240 \\ 5 \overline{) 1200} \end{array}$$

1200 - 240 = £960