

KS3 High Week 6 answers

1, a, 4 b, 31 c, 6.5 d, 2.7 e, 12 f, 1.8

g, 6 h, 0.96 i, 26 j, 11.2 k, $\begin{matrix} 20\% = 146 \\ 1\% = \frac{7.3}{153.3} \end{matrix}$

l, 4.8 m, $\begin{matrix} 1\% = 3 \\ 300 - 3 = 297 \end{matrix}$ n, $\begin{matrix} 5\% = 17 \\ 340 - 17 = 323 \end{matrix}$ o, $\begin{matrix} 1\% = 0.42 \\ 0.6\% = 0.21 \end{matrix}$

2, a, 0.45 b, 0.63 c, 0.04 d, 0.125 e, 0.065 f, 0.01

3, $0.32 \times 40 = 12.8$

4, a, $0.22 \times 56 = 12.3$ b, 96 c, 264.6 d, 11.6
e, 340

5, \uparrow by 30% \therefore new % is $100 + 30 = 130\% \rightarrow 1.3 \times 24 = \pounds 31.2$

6, a, $1.5 \times 76 = 114$ b, ~~560.5~~ c, 660.8 d, 35.7
e, ~~£51.07~~ f, £10.80 g, £66.95 h, £68.68

7, a, $36 \times 0.85 = 30.6$ b, 395.2 c, 15.7 kg d, 6.1 kg
e, £41.04 f, £63.05 g, $82 \times 0.975 = \pounds 79.95$ h, £4224

8, a, $29.99 \times 0.8 = \pounds 23.99$
b, $8.99 \times 0.8 = \pounds 7.19$
c, $65.59 \times 0.8 = \pounds 52.47$

9, $3.4 \times 1.18 = 4.012 \text{ kg}$

10, $3,500 \times 1.4 = \pounds 4900$

11, 8 tins cost $7.99 \times 8 = \pounds 63.92$

35% off $\Rightarrow 0.65 \times 63.92 = \pounds 41.55$

$$12, a) 5.76 \times 1.175$$

$$= £6.77$$

$$b) 8.3 \times 1.175$$

$$= £9.75$$

$$c) 6.2 \times 1.175$$

$$= £7.29$$

13, a) HCF

factors of 12

1	12
2	6
3	<u>4</u>

factors of 20

1	20
2	10
<u>4</u>	5

= 4

b) LCM

multiples of 12

12
24
36
48
<u>60</u>
72

multiples of 20

20
40
<u>60</u>
80

= 60

14, No it is an even number so \div by 2

15,

60
2
30
2
15
3
5

$2^2 \times 3 \times 5$

16, a) $6 + 3 \times 5$ do first

$$6 + 15 = \underline{21}$$

b) $\frac{1}{8} = 0.125$ c) $49 - 36 = 13$

$\frac{3}{8} = 0.375$

d) 7 e) $\frac{8}{4} = 2$

17, Jedd $\frac{18}{25} = 72\%$

Emily $\frac{16}{20} = 80\%$

highest