

2 year 19CSE Course Week 3 answers

1 i) a, 4,000 ii) a, 30,000 iii) a, 0.8 iv) a, 30 v) a, 0.004
 b, 4,280 b, 27,400 b, 0.752 b, 29.6 b, 0.00433
 c, 4,275.9 c, 27,364.2 c, 0.8 c, 29.6 c, 0

2 a, 42 b, 6.7 c, 0.8 d, 0.54 e, 31 f, 2.8 g, 3
 h, 12.6 i, 40 j, 6.2 k, 107.8 l, 40 m, 9.8 n, 380 o, 73.26

3 a, $\frac{37}{100}$ b, $\frac{67}{100}$ c, $\frac{22}{100} \Rightarrow \frac{11}{50}$ d, $\frac{3}{10}$ e, $\frac{5}{100} = \frac{1}{20}$ f, $\frac{4}{100} = \frac{1}{25}$ g, $\frac{125}{1000} = \frac{1}{8}$
 h, $\frac{12}{10} = \frac{6}{5}$ i, $\frac{134}{100} \Rightarrow \frac{17}{50}$

4 a, 0.2 b, 0.1 c, 0.45 d, 0.4 e, 0.06 f, 0.35 g, 0.175 h, 0.67 i, 0.24

5 a, 46% b, 70% c, 31% d, 80% e, 9% f, 65% g, 80% h, 3% i, 75%

6, F $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{10}$ $\frac{3}{5}$ $\frac{6}{25}$ $\frac{3}{50}$ $\frac{7}{100}$ $\frac{1}{8}$ $\frac{112}{100}$
 D 0.5 0.25 0.1 0.6 0.24 0.06 0.07 0.125 1.12
 P 50% 25% 10% 60% 24% 6% 7% 12.5% 112%

7 a, 5.88 b, 1320 c, 329.4 d, 4.96 e, 4.9 f, 4.725

8 a) \uparrow £36 by 5% new percentage = 105%
 $1.05 \times 36 = \text{£}37.80$ b, £74.75 c, £56.64
 d, £2,675 e, 5381.25 kg

9 a) \downarrow £84 by 12% new percentage = 88%
 $0.88 \times 84 = \text{£}73.92$ b, £32.64 c, 459.2 kg
 d, £3,276 e, £20.79

10 a) \downarrow £7 by 20% b, £28 c, £39.20
 $7 \times 0.8 = \text{£}5.60$

11 $29.99 \times 0.85 = \text{£}25.49$

13 ① $20 \times 0.8 = 16$
 ② $16 \times 0.7 = \text{£}11.20$

12 $25 \times 0.94 = 23.5 \text{ kg}$ can be used

14 a, $\frac{1}{8}$ of 360,000 = 45,000 b, 39,600 c, $\frac{12,000}{360,000} = \frac{1}{30}$

15, $\frac{12}{48} = \frac{1}{4} = 25\%$ \therefore he has 75% left

16, $\frac{50}{125} = \frac{2}{5} = 40\%$ done 56% full \therefore 44% used 44% of 40 = 17.6 litres

17, ① $1.12 \times 7.6 = 8.512 \text{ lbs}$