

1.5 Solutions (1.4 Homework)

GCSE (Year 10) Mathematics Percentages II

Answer 1

Vulgar	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{10}$	$\frac{1}{20}$	$\frac{1}{25}$	$\frac{1}{50}$	$\frac{1}{100}$
Decimal	0.5	0.33	0.25	0.2	0.1	0.05	0.04	0.02	0.01
Percentage	50	$33\frac{1}{3}$	25	20	10	5	4	2	1

Answer 2

- (i) 30 % (ii) 35 % (iii) 48 %
 (iv) 260 % (v) 1.7 % (vi) 53.75 %

Answer 3

- (i) $\frac{3}{5}$ (ii) $\frac{8}{25}$ (iii) $\frac{17}{20}$
 (iv) $\frac{107}{50}$ or $2\frac{7}{50}$ (v) $\frac{1}{200}$ (vi) $\frac{1}{500}$

Answer 4

- (i) 25 % (ii) $33\frac{1}{3}$ % (iii) $16\frac{2}{3}$ %
 (iv) 0.125 % (v) $8\frac{1}{3}$ %

Answer 5

$$\frac{18}{49} \times 100 = 36.73... \%$$

Answer 6

$$\begin{aligned} \text{William} - \text{Kate} &= 80 - 65 \\ &= 15 \% \end{aligned}$$

Answer 7

$$5 \% \text{ incorrect} \Rightarrow \frac{1}{20} \times 2500 = 125 \text{ spelt incorrectly}$$

Answer 8

- (i) 62.5 % (ii) 62.5 % (iii) 37.5 %

Answer 9

- (i) $\frac{\pi r^2}{4 r^2} \times 100 = 78.54 \%$ (ii) $\frac{2 r^2}{\pi r^2} \times 100 = 63.66 \%$

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Teachers may obtain detailed worked solutions to the exercises by email from MHHShrewsbury@Gmail.com