

ANSWERS

Trial Trail Revision #1

IGCSE Mathematics
Trial Trail Revision Papers

Answer 1

(i) 2.025×10^5

[1 mark]

(ii) $A = L \times W \Leftrightarrow W = \frac{A}{L}$

$$W = \frac{202500}{250} = 810 \text{ cm}$$

[3 marks]

Answer 2

(i) 169

(ii) 45

(iii) $4x^2 + 12x + 9$

(iv) 0.25

[1, 1, 3, 2 marks]

Answer 3

$$x + x + 14 = 60$$

$$2x + 14 = 60$$

$$2x = 46$$

$$x = 23 \quad \text{Toby has £23 in his wallet}$$

[3 marks]

Answer 4

Key line of working: $mean = \frac{45 + 50 + 30 + 25 + 30 + 40}{6}$
 $= \frac{220}{6} = 36 \frac{2}{3} \text{ or } 36.\dot{6} \text{ g}$

[4 marks]

Answer 5

(i) 80 km

(ii) 180 km

(iii) 52 km/h

[2, 2, 2 marks]

Answer 6

(i) 0.6

(ii) 0.7

(iii) 48 times

[2, 2, 2 marks]

Answer 7

$$\begin{aligned} \text{(i)} \quad \text{Percentage Increase} &= \frac{\text{Increase in Salary}}{\text{Original Salary}} \times 100 \\ &= \frac{59664 - 56500}{56500} \times 100 \\ &= 5.6 \% \end{aligned}$$

[2 marks]**(ii)** The clever method...

To increase something by 5.2 % multiply it by 1.052

$$x \times 1.052 = 56282$$

$$x = \frac{56282}{1.052}$$

$$= 53500 \quad \text{So, Monty's salary used to be £53 500}$$

[2 marks]**Answer 8**

$$\begin{aligned} &2 \times \left(\frac{1}{2} \times 15 \times 8 \right) + 15 \times 20 + 17 \times 20 + 8 \times 20 \\ &= 120 + 300 + 340 + 160 \\ &= 920 \text{ cm}^2 \end{aligned}$$

[6 marks]