



AQA Higher May 13 Paper 1 Non-Calc

$$1. \sqrt[3]{64 \times 1000} = \sqrt[3]{64} \times \sqrt[3]{1000} \\ = 4 \times 10 \\ = 40$$

$$2. \left( \frac{2}{-3} \right)$$

$$3. 3a - 4a^2 + 2a = 5a - 4a^2$$

$$4. \frac{9.9}{0.0195} \approx \frac{10}{0.02} = 500$$

$$5. 5(x+3) < 60 \\ x+3 < 12 \\ x < 9$$

$$6. \frac{1.96}{1.6} = \frac{196}{160} = \frac{49}{40}$$

$$\text{original sum} = \frac{196}{160} \times \frac{100}{100} = \frac{49}{40}$$

$$7. \begin{matrix} A & \rightarrow & B & \rightarrow & C & \rightarrow & D \\ 0 & \rightarrow & 6 & \rightarrow & 12 & \rightarrow & 17 \\ 2 & \rightarrow & 5 & \rightarrow & 8 & \rightarrow & 11 \end{matrix}$$

$$8. a) \frac{31}{50}$$

$$b) \frac{31}{50} = \frac{62}{100} \quad \text{side is quite a bit bigger than a half } \frac{50}{100}$$

$$9. -2\frac{2}{3} + 15\frac{1}{4} \\ = -\frac{23}{6} + \frac{61}{4} \\ = -\frac{23}{6} + \frac{122}{12} \\ = \frac{99}{12}$$

$$10. \begin{matrix} x & 12 & 6 & 3 \\ y & 2 & 4 & 9 \end{matrix}$$

$$y = \frac{x}{2} \quad 4 = \frac{6}{2} \quad x = 24$$

$$y = \frac{24}{2}$$



$$P = 5 + 5 + 2.5 + 2.5 + 5 + 2.5 = 25 \text{ cm}$$

$$12. \begin{matrix} 6 \times 10^{-8} \\ 9 \times 10^{-4} \\ 4 \times 10^{-2} \\ 0.07 \end{matrix}$$

$$13. 15000 \text{ mm}^3$$

14. a) Current ratio is 10:12  
Lines and arcs added in a ratio of 5:4

|       |   |
|-------|---|
| 10:12 |   |
| 15:18 | 1 |
| 20:24 | 2 |
| 25:30 | 3 |
| 30:36 | 4 |
| 35:42 | 5 |
| 40:48 | 6 |

$$b) 20 \text{ line costs } £12 \\ 1 \text{ line costs } £0.60 \quad 2 \div 20$$

$$\text{Cost of one line} = \text{cost of 2 arcs} \\ £0.60 = 2 \times 0.90 \quad 2 \times 30$$

$$16 \text{ arcs cost } 16 \times £0.90 = £14.40$$

$$\frac{16}{18} \quad \text{Total cost} = £12 + £14.40 = £26.40$$

$$15. \text{ (Holt) Expected number of odd no.s} \\ = 0.25 \times 200 + 0.15 \times 200 + 0.5 \times 200 \\ = 50 + 30 + 100 \\ = 180$$

$$16. 5:6$$

$$17. \frac{x}{1002} = \frac{15}{10104}$$

$$18. \text{ (Holt) } A = \left( \frac{\pi \times 10^2 - \pi \times 7^2}{2} \right) \div 2 \\ = \left( \frac{100\pi - 49\pi}{2} \right) \div 2 \\ = \frac{51\pi}{2}$$

$$2 \text{ of these in } A \text{ and } B = 51\pi \text{ cm}^2$$

Two rectangles underneath

$$= (3 \times 30) \times 2 \\ = 180 \text{ m}^2$$

$$b) 25^{\frac{3}{2}} = (\sqrt{25})^3 \\ = 5^3 \\ = 125$$

$$15. a) x = 3000$$

# June 2013 Maths Paper 1 Mark Scheme

**Richard Bailey**



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