



AQA Higher May 18 Paper 1 Non-Calc

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

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

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

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

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

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

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

$$7. \begin{matrix} A & B & C & D \\ 0 & 6 & 12 & 18 \\ 2 & 5 & 8 & 11 \end{matrix} \rightarrow D(18, 11)$$

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

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

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

$$10. \begin{matrix} x & 12 & 6 & 3 \\ y & 2 & 4 & 9 \end{matrix} \\ y = \frac{x}{2} \quad 4 = \frac{6}{2} \quad x = 24 \\ y = \frac{24}{2}$$



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

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

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

$$14. a) \text{ Current ratio is } \frac{\text{lines}}{\text{arcs}} = \frac{10}{12} \\ \text{lines and arcs added in a ratio of } 5:4$$

10:12	
15:18	+
20:24	+
25:30	+
30:36	+
35:42	+
40:48	+

$10:12 = 5:6$  (unscaled)

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

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

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

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

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

$$16. 5:6$$

$$17. \frac{x}{\sin 42} = \frac{15}{\sin 104}$$

$$18. \text{ (Holt)} \text{ Area} = \left( \frac{\pi \times 10^2}{2} - \frac{1}{2} \times 10 \times 10 \right) \div 2 \\ = \left( \frac{100\pi}{2} - 50 \right) \div 2 \\ = \frac{50\pi}{2} - 25$$

$$2 \text{ of these in } A \text{ and } B = 50\pi \text{ cm}^2$$

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

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

$$15. a) x = 3000$$

# Mathematics Paper 1 97mark Scheme 2013

**Jin-Ying Zhang**



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