



AQA Higher May 13 Paper 1 Non-Calc

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

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

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

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

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

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

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

$$7. \begin{matrix} A & B & C & D \\ 0 & 6 & 12 & 17 \\ 2 & 5 & 8 & 11 \end{matrix} \rightarrow D(18, 11)$$

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

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

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

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



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

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

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

14. a) 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 |

10:12 = 5:6 (Crossed)

b) 20 lines cost £12  
1 line costs £0.60 2 = 20  
Cost of one line = cost of 2 arcs  
£0.60 : £0.90 2 = 30  
16 arcs cost 16 x £0.90 = £14.40  
Total cost = £12 + £14.40 = £26.40

15. (Holt) Expected number of odd no.s  
= 0.25 x 200 + 0.15 x 200 + 0.5 x 200  
= 50 + 30 + 60  
= 140

$$16. 5:6$$

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

18.  $A = \left( \frac{\pi \times 10^2}{2} - 4 \times 4 \right) \div 2 \\ = \left( \frac{100\pi}{2} - 16 \right) \div 2 \\ = \frac{50\pi}{2} - 8 \\ 2 \text{ of these in } A \text{ and } B = 51\pi \text{ cm}^2$

Two rectangles underneath  
= (3 x 30) x 2  
= 180 m<sup>2</sup>

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

15 a) x = 3000



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