

AQA Higher May 13 Paper 1 Non-Calc

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

2.  $\begin{pmatrix} 2 \\ -3 \end{pmatrix}$

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

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

7.  $\begin{matrix} A & \rightarrow & B & \rightarrow & C & \rightarrow & D \\ 0 & \rightarrow & 6 & \rightarrow & 10 & \rightarrow & 17 \\ 2 & \rightarrow & 5 & \rightarrow & 8 & \rightarrow & 11 \end{matrix}$

D (17, 11)

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

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

9.  $-2\frac{2}{3} + 15\frac{1}{4}$

$= -\frac{23}{9} + \frac{61}{4}$

$= -\frac{23}{9} + \frac{122}{9}$

$= \frac{99}{9}$

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

$y = \frac{12}{2} \quad 4 = \frac{6}{2} \quad x = 24$

$y = \frac{3}{2}$

11.  $15 = 6 - \frac{1}{2}$



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

12.  $6 \times 10^{-4}$   
 $9 \times 10^{-4}$   
 $4 \times 10^{-2}$   
 $0.07$

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

14. a) Current ratio is lines : arcs  
 lines and arcs added in a ratio of 5:4

- 10 : 12
- 15 : 16
- 20 : 20
- 25 : 24
- 30 : 28
- 35 : 32
- 40 : 36

Cancelled

b) 20 lines cost £12  
 1 line costs £0.60  $2 = 20$   
 Cost of one line = cost of 2 arcs  
 $\frac{2}{£0.60} = \frac{3}{£0.90} \quad 2 < 30$   
 16 arcs cost  $16 \times £0.90 = £14.40$   
 $\frac{16}{2} = 8$  Total cost = £12 + £14.40 = £26.40

15. (Plot) Expected number of odd no.s  
 $= 0.25 \times 200 + 0.15 \times 200 + 0.5 \times 200$   
 $= 50 + 30 + 60$   
 $= 140$

16. 5:6

17.  $\frac{x}{1042} = \frac{15}{21104}$

18.  $A = \frac{(\pi \times 10^2 - \pi \times 7^2)}{2} = 2$   
 $= \frac{(100\pi - 49\pi)}{2} = 2$   
 $= \frac{51\pi}{2}$   
 2 of these in  $\Delta$  and  $\Delta$  =  $51\pi \text{ cm}^2$

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

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



# Maths Paper June 2013 Mark Scheme

**CL Gary**



**Maths Paper June 2013 Mark Scheme:**

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