AQA Higher May 19 Paper 1 Non-Calc

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

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

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

4. $\dfrac{9.8}{0.0195} \approx \dfrac{10}{0.02} = 500$

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

6. $\dfrac{1.86}{1.6} = \dfrac{186}{100} \div \dfrac{160}{100}$
   $= \dfrac{186}{100} \times \dfrac{100}{160}$
   $= \dfrac{186}{160} = \dfrac{93}{80}$

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

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

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

9. $-2\frac{7}{8} + 15\frac{1}{4}$
   $= -\dfrac{23}{8} + \dfrac{61}{4}$
   $= -\dfrac{23}{8} + \dfrac{122}{8}$
   $= \dfrac{99}{8}$

10.
x	12	6	3
y	2	4	8

   $y = \dfrac{k}{x}$ $4 = \dfrac{k}{6}$ $k = 24$
   $y = \dfrac{24}{x}$

11.
   $P = 5 + 5 + 2.5 + 5 + 2.5 + 5 + 2.5$
   $= 25 \text{ cm}$

12. 6×10^{-8}
    9×10^{-4}
    4×10^{-2}
    0.07

13. 15000 mm^3

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

    $10 : 12$
    $15 : 16$
    $20 : 20$
    $25 : 24$
    $30 : 27$
    $35 : 32$
    $40 : 36 = 10 : 9$ Cancelled

    b) 20 lines cost £12
    1 line costs £0.60 $\div 20$
    Cost of one line : cost of 1 arc
    $£0.60 : £0.90$ $\times 30$
    16 arcs cost $16 \times £0.90 = £14.40$
    Total cost $= £12 + £14.40 = £26.40$

15. Expected number of old cars
    $= 0.25 \times 200 + 0.15 \times 200 + 0.5 \times 200$
    $= 50 + 30 + 60$
    $= 140$

16. $5 : 6$

17. $\dfrac{x}{\text{cm} 2} = \dfrac{15}{\text{cm} 10 4}$

18.
    $A = (\pi \times 10^2 - \pi \times 7^2) \div 2$
    $= (100\pi - 49\pi) \div 2$
    $= \dfrac{51\pi}{2}$
    2 of these so $\bigcirc$ and $\bigcirc = 51\pi \text{ cm}^2$

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

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

June 2013 Mathematics Paper 2 Mark Scheme

DJ Losen

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