

2018 O Level E Maths Paper 2

Suggested answers by Ms Jayme Zhang (Key educator @ Keynote Learning)
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Q1a)(i) $\frac{v^2 t}{5}$

(ii) $\frac{14y-3}{(3-2y)(y+3)}$

b) $\frac{4x-3}{x-3}$

c) $x = \frac{3}{2} \text{ or } -5$

Q2a) $6\frac{4}{11}\%$

b) \$972.06

c)(ii) \$1767

Q3a) $\begin{pmatrix} 490 & 280 & 210 \\ 350 & 210 & 210 \end{pmatrix}$

b) $\begin{pmatrix} 0.75 \\ 1.50 \\ 2.25 \end{pmatrix}$

c) $\begin{pmatrix} 1260 \\ 1050 \end{pmatrix}$

c) \$378

Q4a)(i) $5+6n$

b)(i) $\frac{19}{180}$

(ii) $k=9$

(iii) 23

Q5a) $\left(\frac{1}{2}\right)$

b) $\vec{OA} = \begin{pmatrix} -7 \\ 0 \end{pmatrix}$, $\vec{OD} = \begin{pmatrix} 1 \\ 3 \end{pmatrix}$

c) 55.3° (1dp)

d) 5.39 units (3sf)

Q6a) $\frac{3500}{x}$

b) $\frac{3500}{x-10}$

d) $x = 46.13 \text{ or } -36.13$

e) 42 min 30s

Q7b)(i) 10.6 cm^2 (3sf)

(ii) 107 cm^2 (3sf)

Q8b) 38.7° (1dp)

c) 866 cm^2 (3sf)

d) 144 cm^2

Q9(i) 19, 12, 4

(ii) 3.26

(iii) 0.524 (3sf)

b)(i) $\frac{2}{5}$

(ii) a. $\frac{13}{50}$

b. $\frac{9}{50}$

Q10a) 10.5g

d) draw:

$y = x(20-2x)(30-2x)$

when $x = 5.75$,

mass = 9.82g (3sf)

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Sophie Goldie

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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