

1st Year November Assessment 2017

Mark Scheme Total marks (60)

Section A (30)

1a 3.0 (A1)

b) 58.1<sup>6</sup><sub>2</sub> (A1)

2a 
$$\begin{array}{r} 64.019 \\ 7 \overline{) 4428.133} \end{array}$$
 (A1)

(M1) sets up bus stop method correctly

b 
$$\begin{array}{r} 763 \\ \times 58 \\ \hline \end{array}$$

6104 (M1) Good attempt to set up + carry out/long  
38150 (A1) multiplication  
44254 (A1)

c 
$$\begin{array}{r} 354 \\ \times 92 \\ \hline 708 \end{array}$$

(M1) sets up long multiplication correctly without decimal points

31860

$$\begin{array}{r} 31860 \\ \hline 32568 \end{array}$$
 (A1) → 32.568 (A1)

d 
$$\begin{array}{r} 36.75 \\ 12 \overline{) 4481.060} \end{array}$$
 (A1)

(M1) good attempt over a decimal point.

3 0.0972, 0.709, 0.79, 0.792, 0.97  
(A2) -1e00

4a) 20 (A1) b) Susan (A1) c) Fred (A1)

5 A (-5, 5)

B (2, 5)

C (2, -2)

D (-5, -2)

(A3) -1e00

6  $h = 76^\circ$  (A1)  $b = 64.5^\circ$  (A1)  
 $i = 28^\circ$  (A1)  $c = 23^\circ$  (A1)

7 (M1) arcs shown  
 (A2) all 3 sides correct  $\pm 2\text{mm}$   
 (or A1 2 lengths only correct  $\pm 2\text{mm}$ )

8a \$48 (A1) b) multiply answer for \$48 by 10  
 (or similar.) (M1)  
 $\pounds 300$  (A1)

Section B (30)

9  $37.42 \times 5 = 187.1$  (M1) | or  $31.42 - 17.59$  (M1) = 13.83  
 $17.59 \times 5 = 87.95$  (M1) |  $13.83 \times 5$  (M1) = 69.15  
69.15 (A1) | (A1)

10a)  $784 \div 15$  (M1) = 52r4  $\therefore$  52 boxes (A1)  
 b) 4 (A1)

11  $3 \times 1.62 = 4.86$   
 $4 \times 0.96 = 3.84$  (M1) attempt to add  
 $2.29$  for 9 items  
 $9.49$   
 $\pounds 20.48$  (A1)

$\pounds 25 - \pounds 20.48$  (M1) =  $\pounds 4.52$  (A1)

12  $d = 65^\circ$  (A1)  
 angles in a triangle add up to  $180^\circ$   
 and angles on a straight line add up  
 to  $180^\circ$  (A1)  
 (or sum of 2 opposite interior angles  
 equals exterior angles)

6  $h = 76^\circ$  (A1)  $b = 64.5^\circ$  (A1)  
 $i = 28^\circ$  (A1)  $c = 23^\circ$  (A1)

7 (M1) arcs shown  
 (A2) all 3 sides correct  $\pm 2\text{mm}$   
 (or A1 2 lengths only correct  $\pm 2\text{mm}$ )

8a \$48 (A1) b) multiply answer for \$48 by 10  
 (or similar.) (M1)  
 $\pounds 300$  (A1)

Section B (30)

9  $37.42 \times 5 = 187.1$  (M1) | or  $31.42 - 17.59$  (M1) = 13.83  
 $17.59 \times 5 = 87.95$  (M1) |  $13.83 \times 5$  (M1) = 69.15 (A1)  
69.15 (A1)

10a)  $784 \div 15$  (M1) = 52r4  $\therefore$  52 boxes (A1)  
 b) 4 (A1)

11  $3 \times 1.62 = 4.86$   
 $4 \times 0.96 = 3.84$  (M1) attempt to add  
 $2.29$  for 9 items  
 $9.49$   
 $\pounds 20.48$  (A1)

$\pounds 25 - \pounds 20.48$  (M1) =  $\pounds 4.52$  (A1)

12  $d = 65^\circ$  (A1)  
 angles in a triangle add up to  $180^\circ$   
 and angles on a straight line add up  
 to  $180^\circ$  (A1)  
 (or sum of 2 opposite interior angles  
 equals exterior angles)



