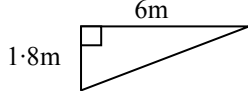


Qu	Give one mark for each •	Illustrations for awarding mark
1a	ans : 10 hours 45 mins 2 marks <ul style="list-style-type: none"> •¹ finds time to midnight •² adds time next day 	<ul style="list-style-type: none"> •¹ 1 hour 10 minutes •² 10 hours 45 minutes
1b	ans: 62.3 km/h 4 marks <ul style="list-style-type: none"> •¹ knows how to find speed •² uses correct fraction for time •³ answer •⁴ correct rounding 	
2	ans : 1252 cm ² 5 marks <ul style="list-style-type: none"> •¹ starts to find area of circle •² finds area of circle •³ starts to find curved surface area •⁴ finds curved surface area •⁵ adds to find total surface area 	<ul style="list-style-type: none"> •¹ $A_{CIRC} = \pi \times 30^2$ •² $A_{CIRC} = 2827 cm^2$ •³ $A_{C.S} = 2 \times \pi \times 30 \times 50$ •⁴ $A_{C.S} = 9425 cm^2$ •⁵ Total area = 2827 + 9425 = 12 252 cm²
3a	ans : £9.24 1 mark <ul style="list-style-type: none"> •¹ knows to divide 	<ul style="list-style-type: none"> •¹ £323.40 ÷ 35 = £9.24
3b	ans: 6 hours 3 marks <ul style="list-style-type: none"> •¹ finds overtime pay •² finds overtime rate •³ divides to answer 	
4a	ans : £22.55 2 marks <ul style="list-style-type: none"> •¹ knows how to find premium •² answer 	<ul style="list-style-type: none"> •¹ 20.5 × £1.10 •² £22.55
4b	ans: £34.44 3 marks <ul style="list-style-type: none"> •¹ finds new monthly premium •² finds difference in monthly premiums •³ knows to multiply by 12 	
5	ans : 21.5 metres 4 marks <ul style="list-style-type: none"> •¹ assembles facts in right triangle •² knows to use Pythagoras' •³ finds unknown length •⁴ finds perimeter 	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> •¹ 1.8m •² $1.8^2 + 6^2$ •³ $\sqrt{39.24} = 6.3$ •⁴ $5.5 + 6 + 3.7 + 6.3 = 21.5 m$

Qu	Give one mark for each •	Illustrations for awarding mark
6	ans : 45.3% 4 marks • ¹ finds loss • ² knows to express loss as fraction of 8400 • ³ knows to multiply by 100% • ⁴ carries out all calculations correctly	• ¹ £8 400 - £4 595 = £3 805 • ² 3805 / 8400..... • ³ ×100% • ⁴ 45.3% [ignore rounding]
7a	ans : 25.3 3 marks • ¹ finds total • ² knows to divide by 9 • ³ answer	• ¹ 228 • ² 228 ÷ 9 • ³ 25.3 [ignore rounding]
7b	ans: 18 2 marks • ¹ orders numbers • ² finds median ans: below the mean 1 mark • ¹ comment consistent with answers	• ¹ 12 14 15 18 18 18 22 50 61 • ² median = 18 • ¹ median is below the mean
8	ans: 70 Euros 2 marks • ¹ knows to multiply • ² answer	• ¹ 56 × 1.25 • ² 70 Euros
9a	ans : scale drawing 2 marks • ¹ starts scale drawing • ² completes drawing	• ¹ both angles correct • ² lines extended to meet
9b	ans: 90 km 3 marks • ¹ finds scale of drawing • ² measures distance on diagram • ³ uses scale to find actual distance	• ¹ 1 cm = 10km • ² AP = 9cm • ³ 9 × 10 = 90km
10a	ans : £38 2 marks • ¹ correct path through flowchart • ² answer	• ¹ $\frac{2}{3} \times 45 + 8$ • ² £38
10b	ans: £67.50 2 marks • ¹ correct path through flowchart • ² answer	• ¹ £45 + 50% • ² £67.50
11	ans : 2711 cm ² 5 marks • ¹ finds height of triangle • ² finds area of triangle • ³ uses correct radius • ⁴ finds area of semicircle • ⁵ knows how to find area of sign	• ¹ 85 - 27 = 58cm • ² $A_{tri} = \frac{1}{2} \times 58 \times 54 = 1566 \text{ cm}^2$ • ³ radius of semicircle is 27cm • ⁴ $A_{sc} = \frac{1}{2} \times \pi \times 27^2 = 1145 \text{ cm}^2$ • ⁵ Area of triangle + area of semicircle = 2711 cm ²
		Total 50 marks