

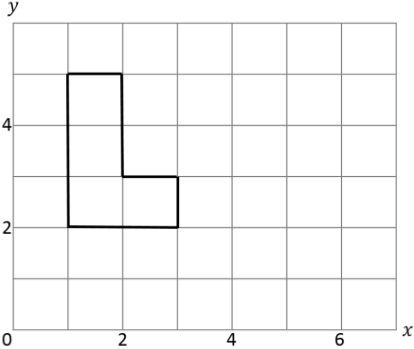
## 7C Half Term Assessment 1 Solutions

1	(a) 14.41	1	
	(b) 4.81	1	
	(c) 3.6	1	
	(d) 4.4	1	
2	(a) $38.715 \text{ cm}^2$	1	
	(b) $26.5 \text{ cm}$	1	
3	$\begin{array}{rrrr} 15 & 55 & 40 & \\ & 45 & & \mathbf{80} \\ \mathbf{30} & \mathbf{70} & 40 & \end{array}$		<b>M1</b> for 80 <b>M1</b> for 30 <b>M1</b> for 70
4	$21 + 22$	1	
5	$11 - 49 \quad 20 - 40$ $18 - 42 \quad 22 - 38$	2	<b>M1</b> for 2 correct pairs
6	(a) 42	1	
	(b) 4	1	
	(c) 7	1	
	(d) 13	1	
	(e) 19	2	M1 for correct use of order of operations.
7	(a) 26	1	
	(b) 17	1	
	(c) 162	1	
8	(a) $8 \text{ cm}^2$	1	
	(b) $4 \text{ cm}^2$	1	
	(c) $16 \text{ cm}^2$	1	
9	(a) 784	2	<b>M1</b> for $216 + 568$
	(b) 5438	1	<b>M1</b> for correct procedure
	(c) 1081	1	
	(d) 1161	1	
	(e) 36	1	
10	(a) 13 & 29	1	
	(b) 2 & 77	2	<b>M1</b> for each correct no.
11	$84 \text{ cm}^2$	3	<b>M1</b> for area of rectangle of $96 \text{ cm}^2$ <b>M1</b> for area of triangle of $12 \text{ cm}^2$

## 7C Half Term Assessment 2 Solutions

1	(a) $44^\circ$	2	<b>M1</b> for 180-136 <b>oe</b>
	(b) $95^\circ$	2	<b>M1</b> for 360-(80+64+121) or 360-265 <b>oe</b>
	(c) $44^\circ$	3	<b>M1</b> for identifying $84^\circ$ <b>M1</b> for 180-(52+84) <b>oe</b>
2	(a) 8.5	2	<b>M1</b> for $\frac{6+11+3+14+11+8+5+10}{8}$ or $\frac{68}{8}$ <b>oe</b>
	(b) 6	1	
3	(a) Any fraction in the range $\frac{1}{2} < x < 1$	1	
	(b) i) $\frac{2}{3}$	1	
	(c) ii) $\frac{5}{6}$	1	
4	(a) angle $19^\circ$ to $120^\circ$ inclusive The angle is bigger than a right angle The angle is obtuse	1 1	<b>oe</b>
	(b) i) $68^\circ$ (within $\pm 2^\circ$ )	1	
	(c) ii) $113^\circ$ (within $\pm 2^\circ$ )	1	
5	(a) £5	1	
	(b) £9	1	
6	(a) $3x$	1	
	(b) $12m$	1	
	(c) $4a + 2b$	1	
	(d) $11t$	1	
7	(a) i) 0.25	1	
	ii) 0.44	1	
	(b) i) 52%	1	
	ii) 60%	1	
8	(a) 9	2	<b>M1</b> for ordering the numbers and attempting to find a solution
	(b) 4	1	
	(c) The medians show that Chole is better is better at the spelling test as her average is higher than Lucie's. The ranges show that Chloe's results are also less varied so she is more likely to maintain a good score.	1 1	<b>oe</b> <b>oe</b>
9	(a) $\frac{6}{7}$	1	
	(b) $\frac{7}{8}$ or <b>oe</b>	2	<b>M1</b> for $\frac{6+1}{8}$ or other correct denominator
	(c) $\frac{3}{12}$ or <b>oe</b>	2	<b>M1</b> for $\frac{7-4}{12}$ or other correct denominator. Condone attempt to add for <b>M1</b>
10	(a) 24	1	
	(b) 32	2	<b>M1</b> for showing substitution of $C = 5 \times 7 - 3$

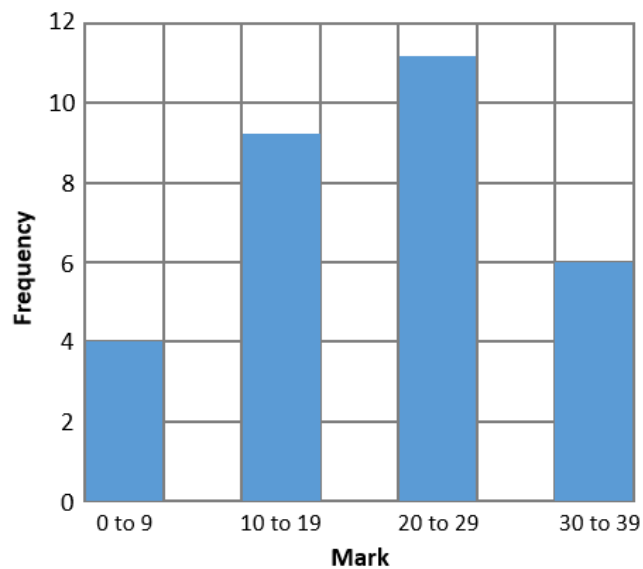
## 7C Half Term Assessment 3 Solutions

1	(a) 13	2	
	(b) 12	1	
2	(a) 23		
	(b) 35		
3	296	2	<b>M1</b> for exchange rate of 1.85, or $\frac{£160}{£40} = 4$
4	(a) $\frac{1}{3}$ oe	1	
	(b) 140	2	
5	(a) 5,10,15,20,25	1	
	(b) 1,2,4,5,10,20	2	<b>M1</b> for 2 correct pairs of factors
	(c) 7	1	
	(d) 4 or 36	1	
6		3	
7	(a) 6.41, 7.643, 7.65	1	
	(b) 8.049, 8.094, 8.1	1	
8	100	1	
9	(a) 7.15	2	
	(b) 3.63	2	
10	(a) $\frac{1}{6}$	1	
	(b) $\frac{1}{3}$	1	<b>oe</b>
	(c) 0	1	
11	(a) * See completed table for question 11	3	
	(b) ** See completed frequency diagram	2	
12	(a) # See graph for question 12	2	<b>M1</b> for one correct line
	(b) (3,4)	1	
13	(a) 10.92	2	
	(b) 1.675	2	

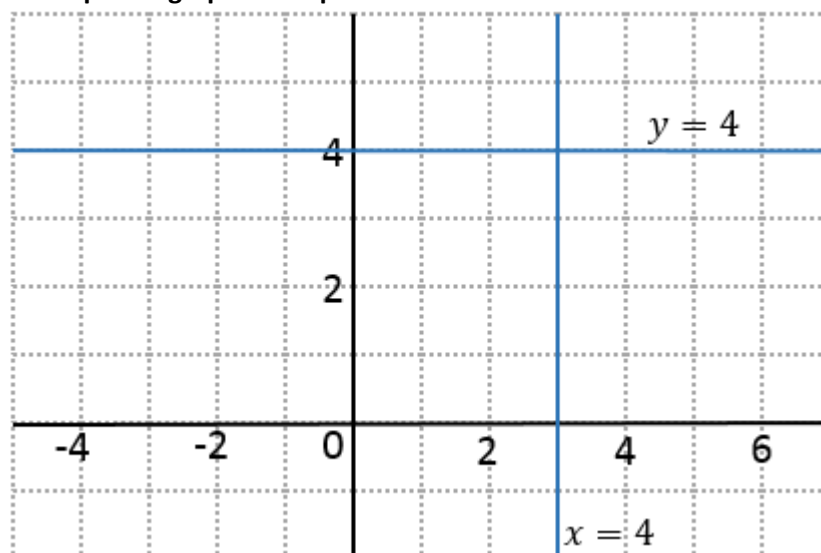
\* Completed table for question 11

Mark	Tally	Frequency
0 to 9		4
10 to 19		9
20 to 29		11
30 to 39		6

\* Completed frequency table for question 11



# Completed graph from question 12



## 7C Half Term Assessment 4 Solutions

1	108 miles	2	
2	(a) 25%	1	
	(b) 20% of £190 is bigger	3	<b>M1</b> for 15% of £250 = £37.50 <b>M1</b> for 20% of £190 = £38.00
3	50	2	
4	8.75	2	
5	(a) Pentagon	1	
	(b) Isosceles triangle	1	
	(c) Parallelogram	1	
6	$-15^{\circ}\text{C}, -3^{\circ}\text{C}, 0^{\circ}\text{C}, 5^{\circ}\text{C}, 8^{\circ}\text{C}$	1	
7	(a) XY	1	
	(b) WX (or ZY)	1	
	(c) WX (or ZY)	1	
8	$10^{\circ}\text{C}$	1	
9	(a) $x = 9$	1	
	(b) $x = 3$	1	
	(c) $x = 56$	1	
10	3 squares shaded	1	
11	(a)	3	
	(b) 4.7cm ( $\pm 0.2$ cm)	1	
12	(a) 2	1	
	(b) -9	1	
	(c) -4	1	
13	(d) 6:5 (oe)	2	
14	(a) * see diagram for question 14	2	<b>M1</b> for each correct point
	(b) (10,1) & (8,5)	1	
15	(a) $7x + 42$	1	
	(b) $18x - 45$	1	
16	(a) $180 = 40 + 4x$	1	
	(b) $x = 35$	1	

\* Diagram for question 14

