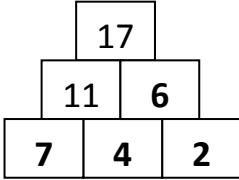
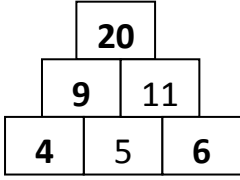
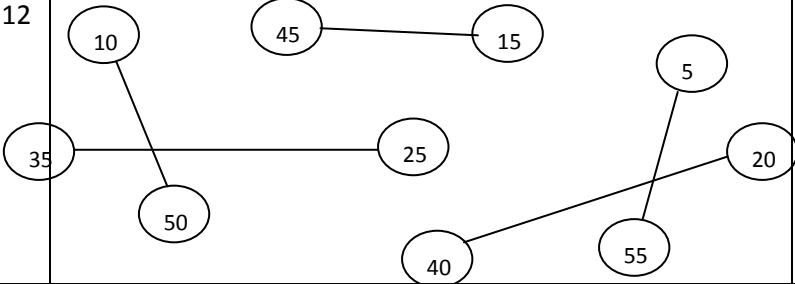
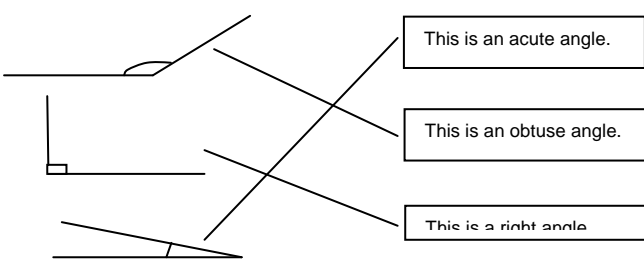


7S Half Term Assessment 1 Solutions

1	(a) +19	1																	
	(b) 44, 27	1																	
	(c) 4, 12, 36, 108, 324, 972	2	A1 for both 4 and 12 A1 mark for 972																
2	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">cm</th> <th style="padding: 5px;">mm</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">6</td> <td style="text-align: center; padding: 5px;">60</td> </tr> <tr> <td style="text-align: center; padding: 5px;">8.5</td> <td style="text-align: center; padding: 5px;">85</td> </tr> <tr> <td style="text-align: center; padding: 5px;">10.7</td> <td style="text-align: center; padding: 5px;">107</td> </tr> </tbody> </table>	cm	mm	6	60	8.5	85	10.7	107	3	A1 for each correct solution								
cm	mm																		
6	60																		
8.5	85																		
10.7	107																		
3	3.9cm ≤ l ≤ 4.1cm where l is the length of a side 11.7cm ≤ P ≤ 12.3cm where P is the perimeter	1 1	A1 for length measured within given range A1 for correct perimeter ft																
4	<table border="1" style="margin: auto; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 5px;">632</td> <td style="padding: 5px;">633</td> <td style="padding: 5px;">634</td> <td style="padding: 5px;">635</td> </tr> <tr> <td style="padding: 5px;">622</td> <td style="padding: 5px;">623</td> <td style="padding: 5px;">624</td> <td style="padding: 5px;">625</td> </tr> <tr> <td style="padding: 5px;">612</td> <td style="padding: 5px;">613</td> <td style="padding: 5px;">614</td> <td style="padding: 5px;">615</td> </tr> <tr> <td style="padding: 5px;">602</td> <td style="padding: 5px;">603</td> <td style="padding: 5px;">604</td> <td style="padding: 5px;">605</td> </tr> </tbody> </table>	632	633	634	635	622	623	624	625	612	613	614	615	602	603	604	605	1	
632	633	634	635																
622	623	624	625																
612	613	614	615																
602	603	604	605																
5	(a) 240, 250	1																	
	(b) 280, 260	1																	
6	(a) 847	1																	
	(b) five hundred and nine	1																	
7	(a)  (b) 	2	A1 for each correct pyramid																
8	372	2	M1 for correct method with not one than one computational error																
9	1052	2	M1 for correct method with not one than one computational error																
10	(a) 8000	1																	
	(b) 300	1																	
	(c) 65 (69) (75) 80 73 ()	2	A1 for 2 correct solutions with no more than one error																
11	(a) 5 cm	1																	
	(b) 6.5 cm (within ±1mm)	1																	
12		2	A1 for 3 or 4 correct connections																
13	(a) (i) 11 m (ii) 30 m ²	1 2	M1 for 5 × 6oe																
	(b) Any rectangle with an area of 30 m ²	1	Common examples include 2 × 15, 3 × 10																
	(c) NO Mr Wood's garden also has a perimeter of 11m.	1	oe																
14	(a) 7 × 4 = 28	1																	
	(b) 3 × 9 = 27	1																	
15	(a) 117	1																	
	(b) 19	1																	
16	(a) 3	1																	
	(b) 16	1																	
	(c) 25	1																	

oe means or equivalent

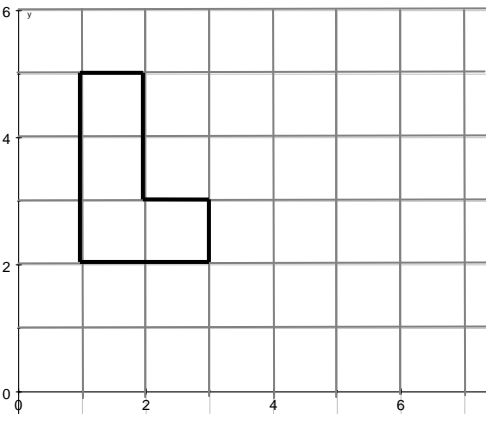
7S Half Term Assessment 2 Solutions

1	(a) 44°	2	M1 for $180 - 136$ oe																		
	(b) 38°	3	M1 for identifying 90° either in calculation or on diagram M1 for $180 - (90 + 52)$ or $180 - 142$ oe																		
2	(a) 7	1																			
	(b) 3	2	M1 for sight of both 8 and 5																		
	(c) The students scored the best marks in test 2 because the mode was one mark higher than in test 1.	1	oe																		
	(d) The students' marks were most varied in test 2 because the range of scores was larger than in test 1.	1	oe																		
3	(a) $\frac{3}{8}$	1																			
	(b) $\frac{5}{8}$	1																			
4	(a) 62° (within $\pm 2^\circ$)	1																			
	(b) Angle of 30° drawn correct to $\pm 2^\circ$	2	B1 if correct angle drawn but not labelled																		
5	(a) 4	1																			
	(b) 9	1																			
	(c) 36	1																			
6	(a) <table border="1" data-bbox="183 824 837 1070"> <thead> <tr> <th>Colour of car</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td> </td> <td>11</td> </tr> <tr> <td>White</td> <td> </td> <td>6</td> </tr> <tr> <td>Silver</td> <td> </td> <td>7</td> </tr> <tr> <td>Black</td> <td> </td> <td>3</td> </tr> <tr> <td>Green</td> <td> </td> <td>1</td> </tr> </tbody> </table>	Colour of car	Tally	Frequency	Red		11	White		6	Silver		7	Black		3	Green		1	3	A2 for correct tallies (-1 for each incorrect colour) A1 for frequencies (ft their tallies)
	Colour of car	Tally	Frequency																		
Red		11																			
White		6																			
Silver		7																			
Black		3																			
Green		1																			
(b) red	1																				
7	North	1																			
8	(a) 40%	1																			
	(b) 67%	1																			
9	(a) 6	1																			
	(b) 8	1																			
	(c) 8	1																			
10	(a) 50%	1																			
	(b) 30%	1																			
11		2	M1 for correctly matching two angles to statements																		
12	(a) $4b$	1																			
	(b) $5x$	1																			
	(c) $5a$	1																			
	(d) $7y - 8$	1																			
13	<table border="1" data-bbox="135 1854 699 2132"> <thead> <tr> <th>Fraction</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>$\frac{1}{2}$</td> <td>50%</td> </tr> <tr> <td>$\frac{1}{4}$</td> <td>25%</td> </tr> <tr> <td>$\frac{3}{4}$</td> <td>75%</td> </tr> <tr> <td>$\frac{1}{10}$</td> <td>10%</td> </tr> </tbody> </table>	Fraction	Percentage	$\frac{1}{2}$	50%	$\frac{1}{4}$	25%	$\frac{3}{4}$	75%	$\frac{1}{10}$	10%	4	A1 for each correct solution								
	Fraction	Percentage																			
	$\frac{1}{2}$	50%																			
	$\frac{1}{4}$	25%																			
	$\frac{3}{4}$	75%																			
$\frac{1}{10}$	10%																				

ft means follow through

oe means or equivalent

7S Half Term Assessment 3 Solutions

1	(a) £2.34	2	M1 for any correct method A1 for correct solution with correct units
	(b) £2.66	2	M1 for any correct method A1 for correct solution with correct units
2	(a) 10	1	
	(b) 169	1	
3	(a) 16	1	
	(b)	1	
	(c) 30	2	M1 for a correct method including sight of the number against each sport 14 × 2 + 1 + 1 or 10, 3, 6, 6, 5
4	(a) half past two or 2:30	1	
	(b) quarter to seven or 6:45	1	
5		3	B1 for plotting 4 or 5 points correctly B2 for plotting all 6 points correctly without joining up the coordinates
6	(a) 5 10 15 20 25	1	
	(b) 1 2 3 4 6 12	2	B1 for 4 or 5 correct factors
7	50p 20p 20p20p	2	SC1 for writing down a combination of coins that total £1.10 e.g. 50p 50p 5p 5p
8	(a) certain	1	
	(b) equally likely	1	
9	(a) £9.46	2	M1 for correct method with not more than one computational error
	(b) £3.75	2	M1 for correct method with not more than one computational error
10	(a) 340	1	
	(b) 645 000	1	
	(c) 130	1	
11	(a) $\frac{1}{6}$	1	
	(b) $\frac{3}{6} = \frac{1}{2}$	1	Note that the fraction does not need to be simplified
	(c) 0	1	
12	(a) 1116	1	
	(b) 0954	1	
	(c) 50 minutes	2	M1 for an attempt at a correct method
13	(a) 1742	2	M1 for correct method with not more than one computational error
	(b) 136	2	M1 for correct method with not more than one computational error

7S Half Term Assessment 3 Solutions

7S Half Term Assessment 4 Solutions

1	(a) 50%	1	
	(b) 45	2	M1 for $180 \div 4$ oe
	(c) 39	2	M1 for $390 \div 10$ oe
2	108 miles	2	M1 for 36×3 oe
3	(a) 69	2	M1 for $t = 7 \times 7 + 20 = 49 + 20$ oe
	(b) 3 hours	1	
4	(a) 14	1	
	(b) 11	1	
	(c) 58	1	
5	-3°C , -2°C , 0°C , 4°C , 5°C	2	SC1 temperatures in order largest to smallest
6	(a) pentagon	1	
	(b) isosceles triangle	1	
	(c) parallelogram	1	
7	(a) A1 for any vertical line	1	
	(b) EF	1	
8	10°C	1	
9	(a) 6	1	
	(b) 6	1	
	(c) any pairs of parallel lines marked correctly	1	
10	(a) 21, 35, 63	2	A1 for any two correct solutions
	(b) 3, 6, 11	2	A1 for any two correct solutions
11	(a) 3 : 4	1	
	(b) 4 : 3	1	
12	(a) B3 for correctly drawn triangle	3	B1 for length of 7cm ($\pm 1\text{mm}$) B1 for one of the angles correctly measured ($\pm 2^{\circ}$)
	(b) 4.6 – 5 cm	1	ft from their answer to (a)
13	(a) 5	1	
	(b) 35	1	
	(c) 8	1	
14	(a) $b + 5$	1	
	(b) $b - 3$	1	
	(c) $4b$	1	

oe means or equivalent

ft means follow through