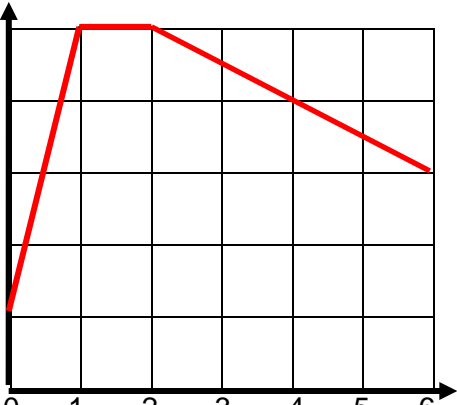


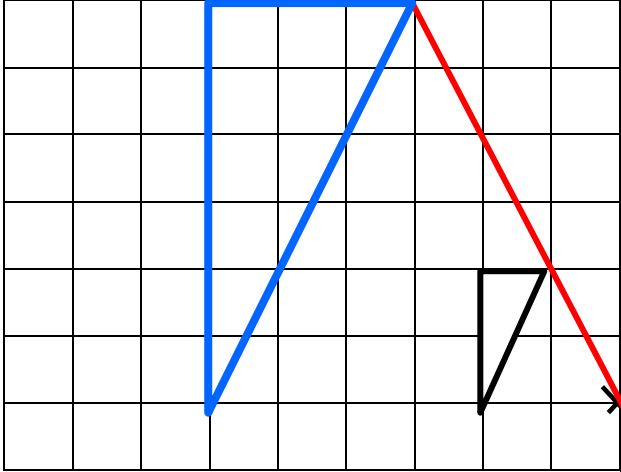


Yr 8 Level 6 Practice Assessment		Answers																		
A	Numbers & the number system	Answer	Mark	Criteria																
1(a)	Circle equivalents to $\frac{6}{20}$	Circle: 30%; $\frac{6}{20}$; $\frac{3}{10}$; 0.3	2 (-1/error)	1																
1(b)	Order the numbers	$\frac{3}{10}$ 0.32 33% $\frac{1}{3}$	1	1																
B	Calculating		Mark	Criteria																
2	Increase 1200 by 20%	Increase=240 Number of computers sold = 1440	1 1	2																
3	How much compost?	loam:peat:sand 7 : 3 : 2 = 12 shares Peat : 3 shares = 1.5litres 12 share = 1.5litres x 4 = 6litres	1 1	3																
4	6 pens for £2.30 Or 5 pens for £1.90	5 for £1.90 cheaper with reason 1 pen = £2.30 ÷ 6 = 38.33p 30pens = 5x£2.30=£11.50 1 pen = £1.90 ÷ 5 = 38p 30pens = 6x£1.90=£11.40	1 1	4																
5	$\frac{7}{9}$ of 3km	$\frac{7}{9} \times 3 = \frac{21}{9}$ = 2 $\frac{3}{9}$ or 2 $\frac{1}{3}$	1 1	5																
6	Plot the journey	 Start 0 1 2 3 4 5 6	2 (-1 per error)	10																
6 (a) (b) (c) (d)	What happens at A What happens at B What happens at C What happens between D & E	Water flow into bath slowed down Water flow into bath stopped Water started to flow quickly out of bath Water started to flow more slowly out of bath	1 1	11																
D	Shape, Space and Measure		Mark	Criteria																
8	Complete table about symmetry of quadrilaterals	<table border="1" data-bbox="619 1742 1193 2016"> <tr> <td></td> <td>C</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td>E</td> <td>A</td> <td></td> </tr> <tr> <td></td> <td></td> <td>B</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>D</td> </tr> </table>		C			F	E	A				B					D	2 (-1 per error)	
	C																			
F	E	A																		
		B																		
			D																	
9	Find missing angles	x= 74° (isosceles triangle-equal angles) y= 32° (angle sum of triangle =180) z= 46° (angle sum of triangle =180)	1 1 1	13																

10	Find missing angle	$a=62^\circ$ (corresponding angles are equal)	1	14																					
11	Front elevation Plan	  Front Plan	1 1	16																					
12	Enlargement sf 3		1	17																					
13	Describe the transformation	Translation 4 right 2 down or vector $\begin{pmatrix} 4 \\ -2 \end{pmatrix}$	1	18																					
14	Construction of bisector of angle	Appropriate arcs	1	19																					
15	Volume of surface area of cuboid	$2x(4x5) = 40$ $2x(5x2) = 20$ $2x(4x2) = 16$ Total surface area = 76cm^2	1 1	20																					
16	Find circumference	$\pi \times 84$ $= 264\text{cm}$	1 1	21																					
E	Data Handling		Mark	Criteria																					
17	Create grouped frequency table	<table border="1"> <thead> <tr> <th>Class interval</th> <th>Tally</th> <th>f</th> </tr> </thead> <tbody> <tr> <td>0-5</td> <td> I</td> <td>6</td> </tr> <tr> <td>6-10</td> <td> </td> <td>3</td> </tr> <tr> <td>11-15</td> <td> </td> <td>5</td> </tr> <tr> <td>16-20</td> <td> </td> <td>5</td> </tr> <tr> <td>21-25</td> <td> III</td> <td>8</td> </tr> <tr> <td>26-30</td> <td> </td> <td>3</td> </tr> </tbody> </table>	Class interval	Tally	f	0-5	I	6	6-10		3	11-15		5	16-20		5	21-25	III	8	26-30		3	2 (-1 per error)	22
Class interval	Tally	f																							
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21-25	III	8																							
26-30		3																							
18	Complete a table for angles	$360^\circ \div 40 = 9^\circ$ per person $10 \times 9 = 90^\circ$ $3 \times 9 = 27^\circ$ $7 \times 9 = 63^\circ$ $20 \times 9 = 180^\circ$ Pie chart	1 1	23																					
19	(a) No. >70kg (b) Range	<u>5</u> $87-46=41\text{kg}$	1 1	26																					