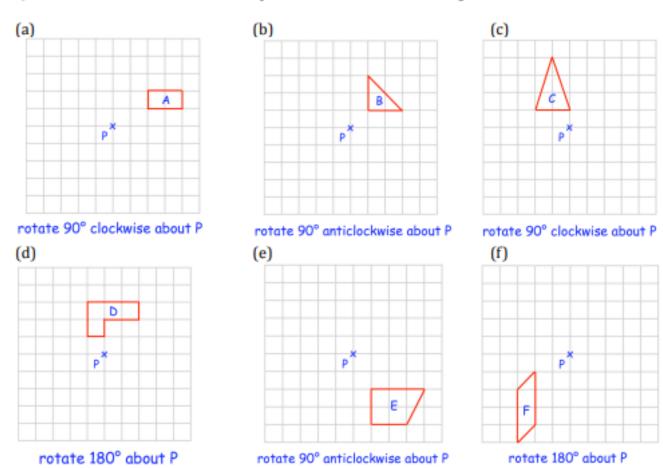
Name	
Form	
Teacher	

Maths Homework Booklet Year 9 Summer 1 Set 4,5

Topic	Score achieved	Sparx %
1. Rotations	/6	%
2. Reflections	/6	%
3. Translations	/6	%
4. Enlargements	/6	%
5. Percentages of amounts	/16	%



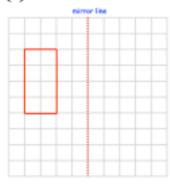
Question 1: Rotate each of the shapes below as instructed, using P as the centre of rotation.



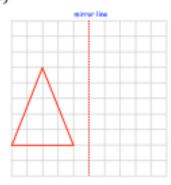
Sparx – Homework Answers	

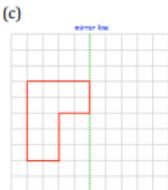
Question 1: Reflect each shape in the mirror line given

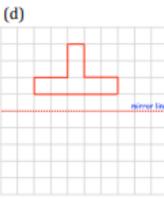


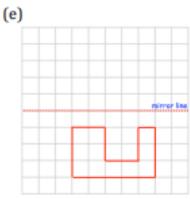


(b)







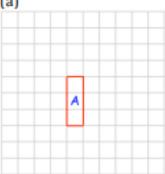




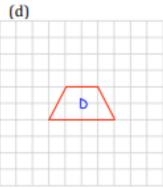
Sparx – Homework Answers	

Question 1: Translate each of the shapes below as instructed.

(a)

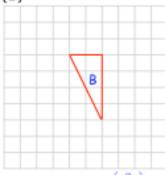


Translate A by $\binom{3}{1}$

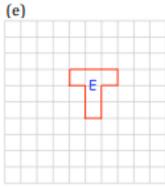


Translate D by $\binom{-3}{3}$

(b)

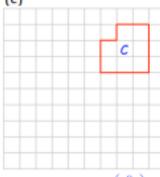


Translate B by $\binom{2}{-2}$

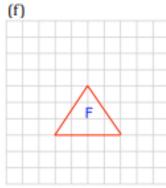


Translate E by $\begin{pmatrix} -2 \\ -4 \end{pmatrix}$

(c)



Translate C by $\begin{pmatrix} 0 \\ -5 \end{pmatrix}$



Translate F by $\begin{pmatrix} 1.5 \\ 0 \end{pmatrix}$

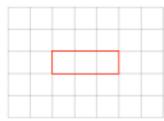
Sparx – Homework Answers	

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Week 4

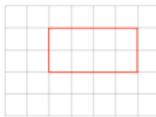
Question 1: Copy these shapes and then enlarge by the scale factor given.

(a)



Enlarge by scale factor 3

(b)



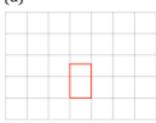
Enlarge by scale factor 2

(c)



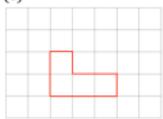
Enlarge by scale factor 3

(d)



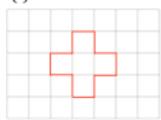
Enlarge by scale factor 4

(e)



Enlarge by scale factor 2

(f)



Enlarge by scale factor 4

Sparx – Homework Answers	



Question 1: Work out the following

(a) 10% of 70m (b) 25% of 16 seconds (c) 10% of 400kg (d) 50% of 26g

(e) 75% of 40ml (f) 1% of £300 (g) 25% of 36 days (h) 50% of 9 days

(i) 75% of 24p (j) 25% of £18 (k) 1% of \$6300 (l) 10% of £7

(m) 1% of 60m (n) 75% of 8 miles (o) 1% of 80kg (p) 50% of 1.6km

Sparx – Homework Answers