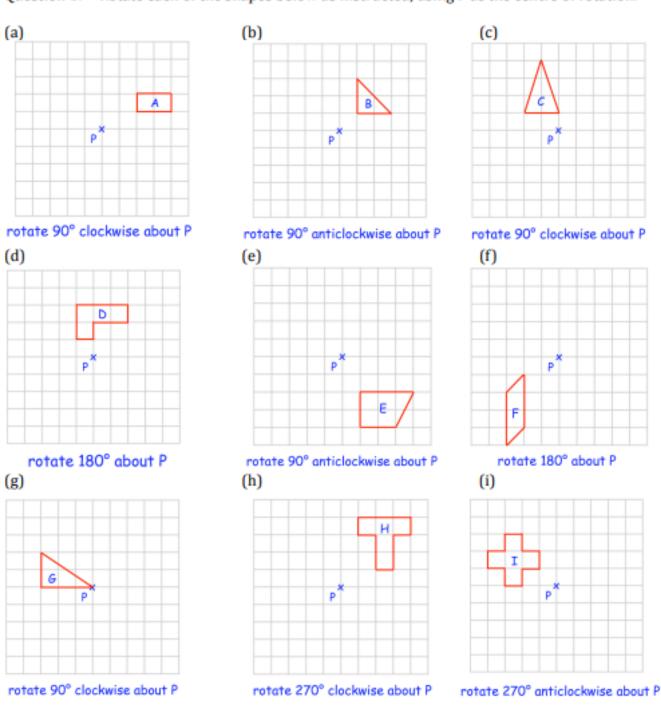
Name	
Form	
Teacher	

Maths Homework Booklet Year 9 Summer 1 Set P,1,2,3

Topic	Score achieved	Sparx %
1. Rotations	/9	%
2. Reflections	/9	%
3. Translations	/9	%
4. Enlargements	/12	%
5. Percentages of amounts	/28	%



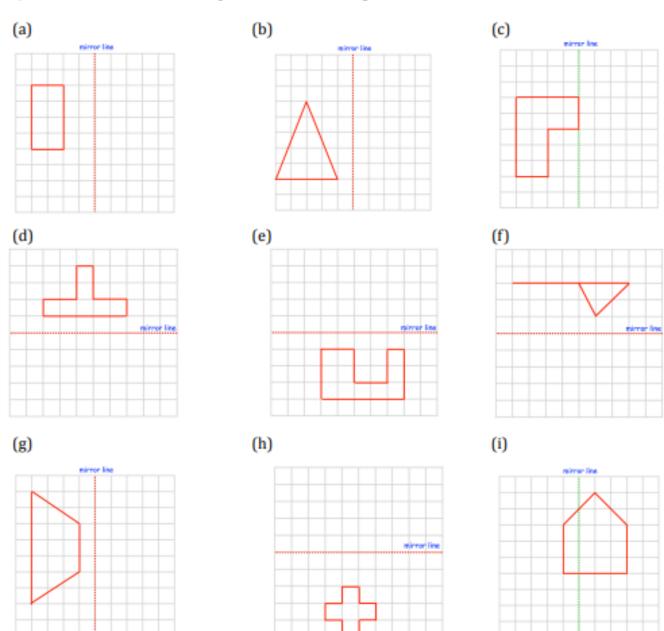
Question 1: Rotate each of the shapes below as instructed, using P as the centre of rotation.



Sparx – Homework Answers	



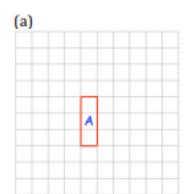
Question 1: Reflect each shape in the mirror line given



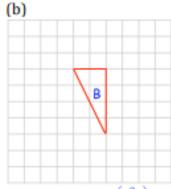
Sparx – Homework Answers	



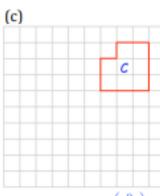
Question 1: Translate each of the shapes below as instructed.



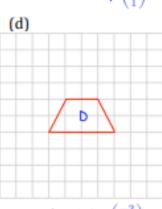
Translate A by $\binom{3}{1}$



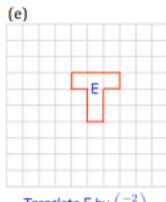
Translate B by $\binom{2}{-2}$



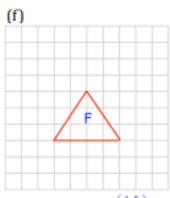
Translate C by $\begin{pmatrix} 0 \\ -5 \end{pmatrix}$



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

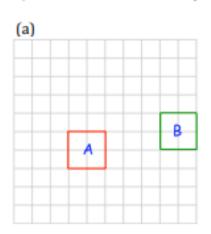


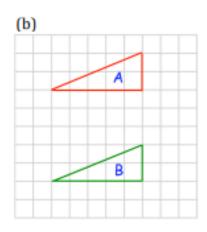
Translate E by $\begin{pmatrix} -2 \\ -4 \end{pmatrix}$

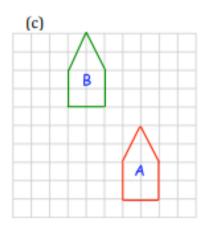


Translate F by $\binom{1.5}{0}$

Question 2: Describe fully each translation that takes shape A to shape B



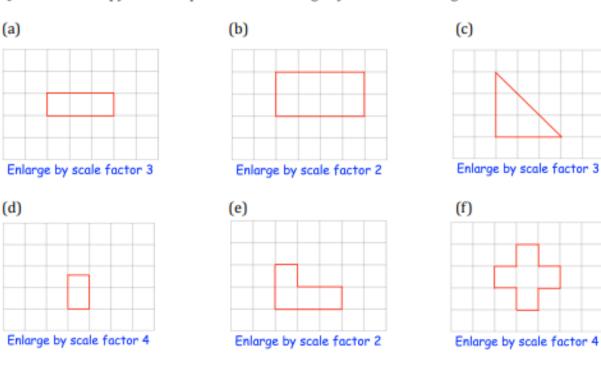




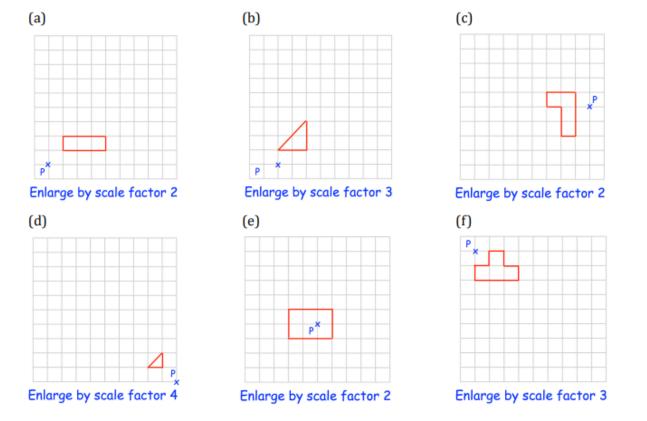
Sparx – Homework Answers	



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



Question 1: Enlarge each shape by the scale factor given Use P as the centre of enlargement.



Sparx – Homework Answers	



Question 1: Calculate the following

- (a) 15% of 80ml (b) 9% of 205kg (c) 45% of £135 (d) 17% of 540km
- (e) 53% of 700g (f) 14% of 12 hours (g) 31% of 280kg (h) 6% of 4GB
- (i) 85% of 1250ml (j) 66% of 9.4 miles (k) 97% of \$54 (l) 13% of 0.5 tonnes

Question 2: Calculate the following

- (a) 2.5% of 60cm (b) 7.2% of 104ml (c) 24.5% of 30m (d) 47.9% of £3200
- (e) 0.3% of 44km (f) 85.2% of 6000 marks (g) 0.25% of \$840 (h) 3.175% of 52g

Question 3: Calculate the following

- (a) 109% of 30m (b) 124% of 38 seconds (c) 186% of £40 (d) 196% of 20 miles
- (e) 220% of 15g (f) 140.5% of 180kg (g) 371% of £60 (h) 1054% of 70 hours

Sparx – Homework Answers