

NAME:	
CLASS:	
DATE:	

Basic

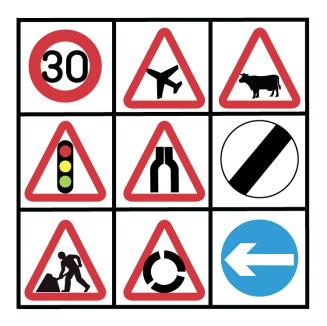
1) Orange paint is made by mixing 11 parts yellow paint to 9 parts red paint. Fred wants to make 40 litres of orange paint. How much red paint will he need?

2) A school employs teachers to number of children in the ratio 1:23.

a) If the school has 1100 children, how many teachers does it need?

b) If the school has 17 teachers, how many children can it take?

3) Draw any lines of symmetry you see in these road signs.



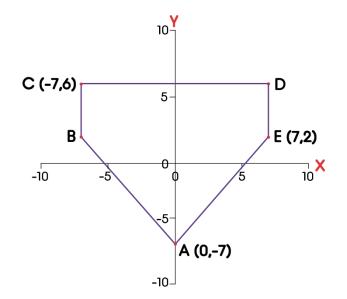


Basic

4) Reflect the shape about the dotted line.

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5) In the diagram below the *y*-axis is a line of symmetry. Give the coordinates of point B and point D.

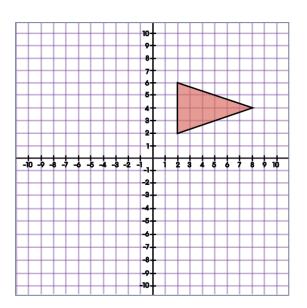


Twig		The Bea	uty Formula
NAME:			
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	Co	ore	
1) A school employs tea	achers to number of children in t	he ratio 1:23.	
	0 children, how many teachers o teachers, how many children ca		
2) Express the following a) 36:40	g ratios in their simplest form: b) 6mm:3cm	c) 2.5m:6m	
3) Express the following a) 3:18	g ratios in the form 1: <i>n</i> : b) 4:10	c) 4:31	d) 4:15
4) The dimensions of a a) its length to its width	room are length 12m and width ? b) its width to its length		

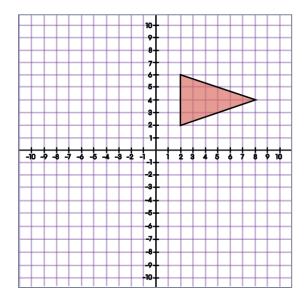


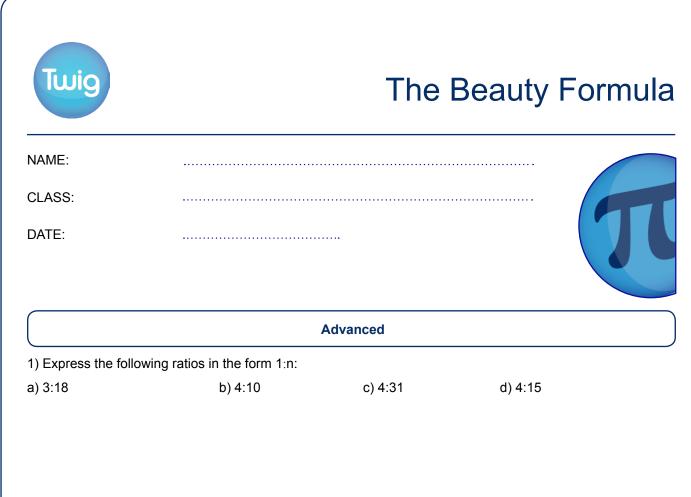
Core

5) In the diagram below, reflect the triangle in the *x*-axis and in the *y*-axis.



6) In the diagram below, rotate the triangle 90° in a clockwise direction and then rotate the new triangle 180° in a clockwise direction around the origin (0,0).



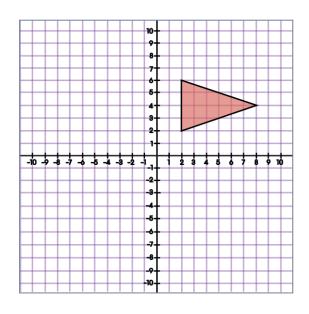


2) The dimensions of a room are length 12m and width 8m. What is the ratio of:

b) its width to its length?

a) its length to its width?

3) In the diagram below, reflect the triangle in the *x*-axis and in the *y*-axis.

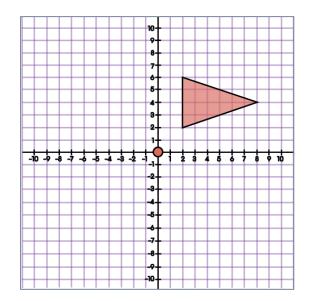


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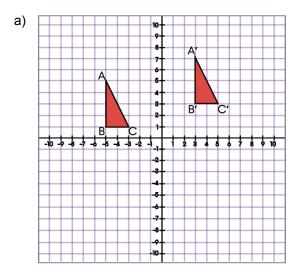


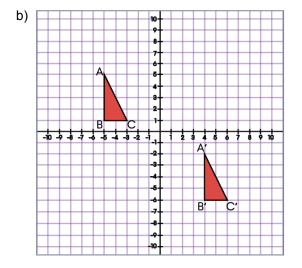
Advanced

4) In the diagram below, rotate the triangle 90° in a clockwise direction and then rotate the new triangle 180° in a clockwise direction around the origin (0,0).

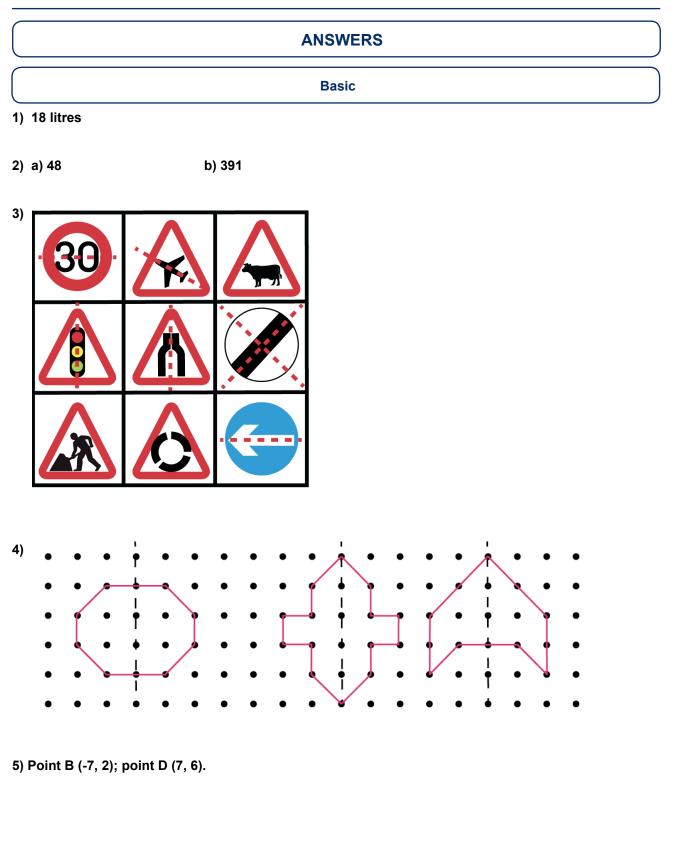


5) In each of the diagrams below describe the translations that take triangle ABC to triangle A'B'C'.











		ANSWERS		
		Core		
) a) 48	b) 391			
e) a) 9:10	b) 1:5	c) 5:12		
a) 1:6	b) 1:2.5	c) 1:7.75	d) 1:3.75	
) a) 3:2	b) 2:3			



a) 1:6 a) 3:2	b) 1:2.5 b) 2:3	Advanced c) 1:7.75	d) 1:3.75	
a) 3:2	b) 2:3	c) 1:7.75	d) 1:3.75	
	10			
	8- 7- 6- 5-			
	6- 4- 3- 2-			
-10 -9 -8 -7 -0 -5 -4 -3 -2				
	2			
	-5- 			
	8- 			
	10			
	7- 6- 5-			
	4- 3- 2-			
-10 -9 -8 -7 -0 -5 -4 -3 -2				
	-3- -4- -5-			
a) $\binom{8}{2}$	b) $\begin{pmatrix} 9 \\ -9 \end{pmatrix}$			