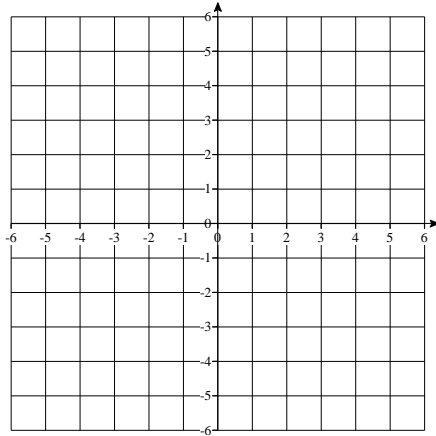# Homework 11

Where a question asks you to show working, you will only be awarded the mark for a correct answer if it is supported by an appropriate method.
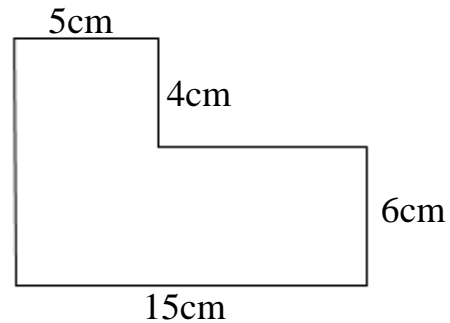
Due in:

1. Circle the prime numbers and draw squares around the square numbers in the list below: 3, 6, 9, 15, 25, 31, 52, 59	3. Showing a clear written method calculate the product of 46 and 37.
2. Showing a clear written method divide 1666 by 7.	4. Sally spends three-quarters of the money in her purse on make-up. She spends £9.80. How much money did she have in her purse?

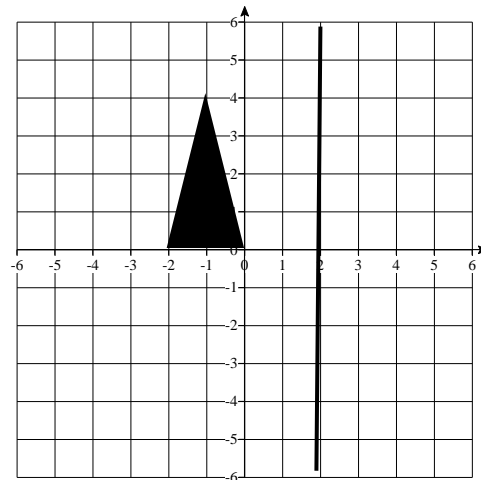|	
5. Draw the graph of y=-3 on the axes below.	8. Calculate the area of the shape below:
6. Convert 43kilometres into centimetres.	9. Write down the first five terms of the following sequence: T(n) = 3n + 5
7. Solve the equation: 5x + 8 = 43	10. Reflect the shape in the mirror line shown.

Shape labels (Q8): 5cm, 4cm, 6cm, 15cm

11. The dimensions of a cuboid are:
 	
Length = 4cm
Width = 3cm
Height = 10cm
What is the volume of the cuboid?
	14. Substitute the values
	  a = 3, b = 4, c = 7
	into the expression
	
	  2a + 5b - c

12. One of the angles in an isosceles triangle is 70°. What could the other two angles of the triangle be?	15. The mean of a set of 5 numbers is 13. Four of the numbers are 6, 10, 11 and 15. What is the fifth number?

13. Estimate the answer to
 	
  213 x 46
――――――
    0.08
	16. Write 300 as the product of its prime factors.

17. A pair of jeans are reduced by 25% in the sales. They originally cost £35. How much are they in the sale?	19. If the graph of y= 2x – 4 is drawn what are the coordinates of the y intercept?
18. Calculate the answer using a clear written method: 4.7 x 8	20. A circle has a diameter of 8cm. What is the circumference? Give your answer to 1 decimal place.

Total: