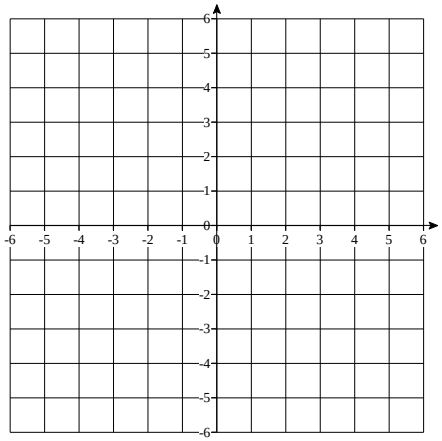
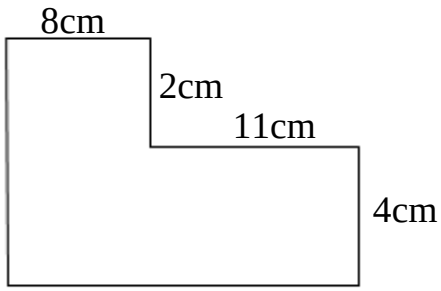
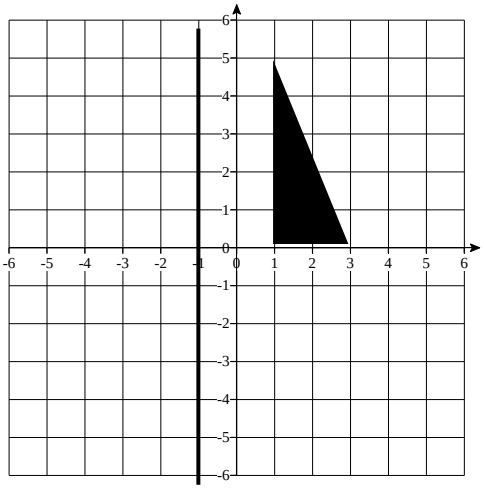
Homework 23

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

Due in:

1. List all the prime numbers between 1 and 30.	3. Showing a clear written method calculate the product of 18 and 203.
2. Showing a clear written method divide 3488 by 16.	4. Two thirds of an amount is 8. What is one and one quarter of the amount?

5. Draw the graph of y = 4 on the axes below. 	8. Calculate the perimeter of the shape below: 
6. Convert 20 metres into centimetres then millimetres.	9. Write down the first five terms of the following sequence: T(n) = 2n - 1
7. Solve the equation: 3(2x - 1) = 21	10. Reflect the shape in the mirror line shown. 

11. The dimensions of a cuboid are: Length = 5 cm Width = x cm Height = 9 cm If the volume is 630 cm^3, what is the width of the cuboid?	14. Substitute the values a = 5, b = 10, c = -2 into the expression $a(3b + c)$
12. One of the angles in an isosceles triangle is 52°. What could the other two angles of the triangle be?	15. The mean of a set of 6 numbers is 5. Four of the numbers are 2, 4, 4, 5, and 10. What is the sixth number?
13. Estimate the answer to $\frac{9.3^2 \times 4.65}{19.8 \times 0.45}$	16. Write 175 as the product of its prime factors.

17. A shirt is reduced by 20% in the sales. It now costs £40. How much was it originally?	19. If the graph of $y= 3x + 205$ is drawn what are the coordinates of the y intercept?
18. Calculate the answer using a clear written method: 16.7 x 14	20. A circle has a diameter of 32 cm. What is the area? Give your answer to 1 decimal place.

Total: