Homework 19
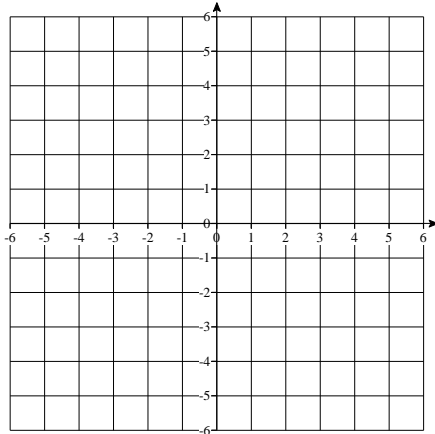
Where a question asks you to show working, you will only be awarded the mark for a correct answer if it is supported by an appropriate method.

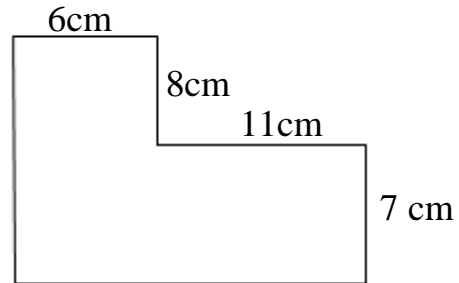Due in:

1. List all the square numbers between 50 and 250	3. Showing a clear written method calculate the product of 27 and 459.
2. Showing a clear written method divide 6324 by 17.	4. Four fifths of an amount is 36. What is one and one half of the amount?

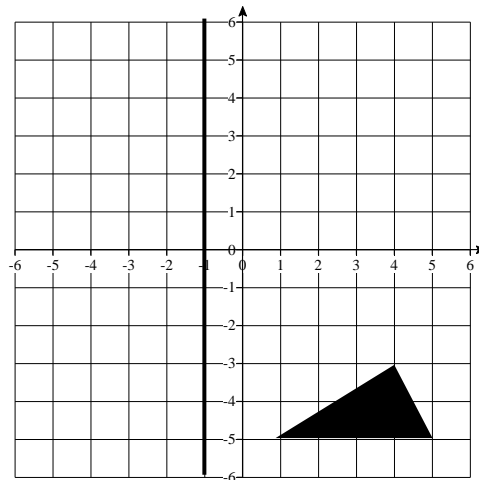| 5. Draw the graph of y = -x on the axes below.	8. Calculate the perimeter of the shape below:
(grid with axes from -6 to 6)	6cm 8cm 11cm 7 cm
6. Convert 704 metres into centimetres then millimetres.	9. Write down the first five terms of the following sequence: $T(n) = -3n + 8$
7. Solve the equation: (Note: The answer is not an integer!) $4(3x - 1) = 22$	10. Reflect the shape in the mirror line shown. (grid with axes from -6 to 6 and a shaded triangle)

11. The dimensions of a cuboid are: Length = x cm Width = 7 cm Height = 9 cm If the volume is 252 cm^3, what is the length of the cuboid?	14. Substitute the values a = 3, b = 2, c = -5 into the expression $5a^2 - 2bc$
12. One of the angles in an isosceles triangle is 134°. What are the other two angles of the triangle?	15. The mean of a set of 4 numbers is 2. Three of the numbers are 1, 3, and 8. What is the fourth number?
13. Estimate the answer to $\dfrac{9^2 \times 4.86}{4.89^2}$	16. Write 144 as the product of its prime factors.

17. A cabinet is reduced by 45% in the sales. It originally cost £120. How much is it in the sale?	19. If the graph of y= 4x - 7 is drawn what are the coordinates of the y intercept?
18. Calculate the answer using a clear written method: 7.245 x 32	20. A circle has a radius of 11.9 cm. What is the circumference? Give your answer to 1 decimal place.

Total: