Homework 22
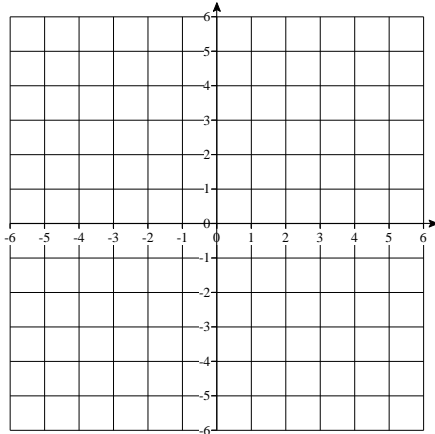
Where a question asks you to show your working, you will only be awarded the mark for a correct answer if it is supported by an appropriate method.
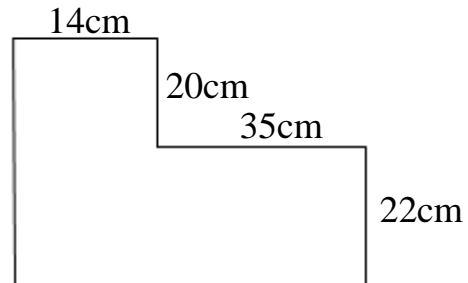
Due in:

1. List all the cube numbers between 1 and 150.	3. Showing a clear written method calculate the product of 43 and 624.
2. Showing a clear written method divide 8967 by 21.	4. Three eighths of an amount is 12. What is one and one quarter of the amount?

5. Draw the graph of y = -x on the axes below.

8. Calculate the perimeter of the shape below:

14cm

20cm

35cm

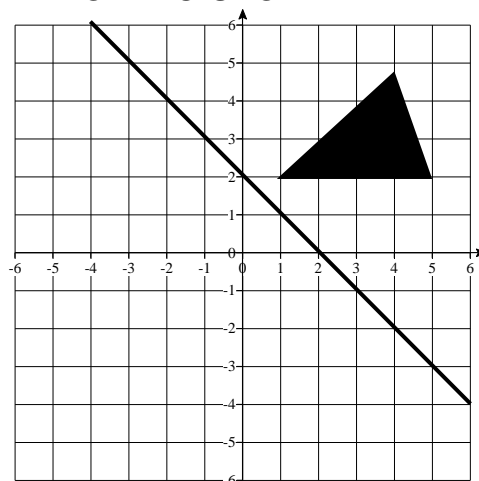22cm

6. Convert 9.8 metres into centimetres then millimetres.

9. Write down the first five terms of the following sequence:

T(n) = 3n + 6

7. Solve the equation:
(Note: The answer is not an integer!)

4(5x - 3) = 18

10. Reflect the shape in the mirror line shown.

11. The dimensions of a cuboid are: Length = 5 cm Width = x cm Height = 10 cm If the volume is 1500 cm^3, what is the width of the cuboid?	14. Substitute the values $a = 5$, $b = -3$, $c = 11$ into the expression $2b^2 - 5ac$
12. One of the angles in an isosceles triangle is 128°. What are the other two angles of the triangle?	15. The mean of a set of 5 numbers is 7. Four of the numbers are 2, 4, 5, and 10. What is the fifth number?
13. Estimate the answer to $\dfrac{128 \times 7.3}{4.9 \times 3.6^2}$	16. Write 228 as the product of its prime factors.

17. A jumper is reduced by 25% in the sales. It now costs £24. How much was it originally?	19. If the graph of y= 2x + 1.8 is drawn what are the coordinates of the y intercept?
18. Calculate the answer using a clear written method: 5.23 x 23	20. A circle has a diameter of 14.8 cm. What is the area? Give your answer to 1 decimal place.

Total:

★

★