

# Homework 24

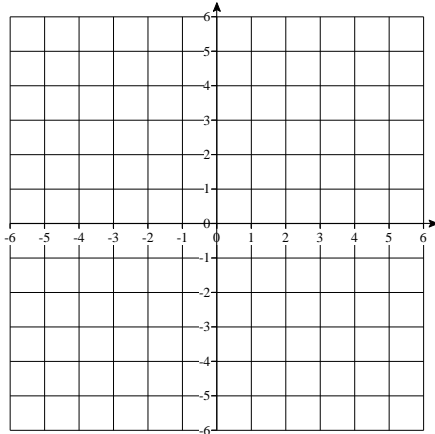
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Where a question asks you to show your working, you will only be awarded the mark for a correct answer if it is supported by an appropriate method.

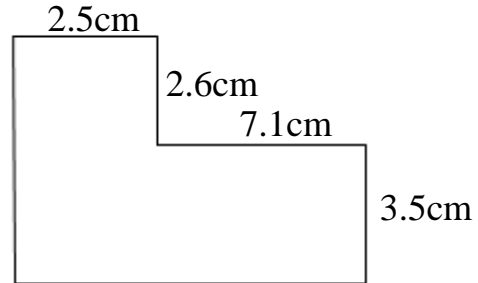
Due in:

1. List all the prime numbers between 25 and 50.	3. Showing a clear written method calculate the product of 41 and 109.
2. Showing a clear written method divide 1173 by 23.	4. Two fifths of an amount is 12. What is one and one quarter of the amount?

5. Draw the graph of  $x = -4$  on the axes below.



8. Calculate the perimeter of the shape below:



6. Convert 6.5 metres into centimetres then millimetres.

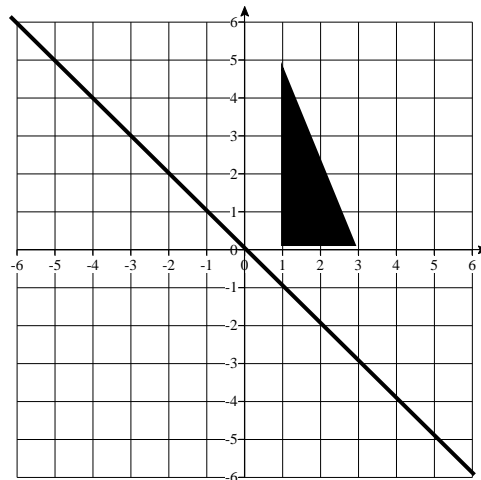
9. Write down the first five terms of the following sequence:

$$T(n) = 5n + 7$$

7. Solve the equation:

$$6x - 2 = 2x + 10$$

10. Reflect the shape in the mirror line shown.



<p>11. The dimensions of a cuboid are:</p> <p>Length = 7 cm  Width = x cm  Height = 10 cm  If the volume is <math>280 \text{ cm}^3</math>, what is the width of the cuboid?</p>	<p>14. Substitute the values <math>a = 7</math>, <math>b = 1</math>, <math>c = -6</math> into the expression</p> $5(a - 3b + c)$
<p>12. One of the angles in an isosceles triangle is <math>152^\circ</math>. What are the other two angles of the triangle?</p>	<p>15. The mean of a set of 4 numbers is 8. Four of the numbers are 4, 5, and 10. What is the fourth number?</p>
<p>13. Estimate the answer to</p> $\frac{4.8^3 \times 8.9}{2.1 \times 4.6}$	<p>16. Write 128 as the product of its prime factors.</p>

17. A jumper is reduced by 10% in the sales. It now costs £45. How much was it originally?

19. If the graph of  $y = 3x - 8$  is drawn what are the coordinates of the y intercept?

18. Calculate the answer using a clear written method:

$$17.8 \times 23$$

20. A circle has a radius of 9 cm. What is the circumference? Give your answer to 1 decimal place.

Total:

