

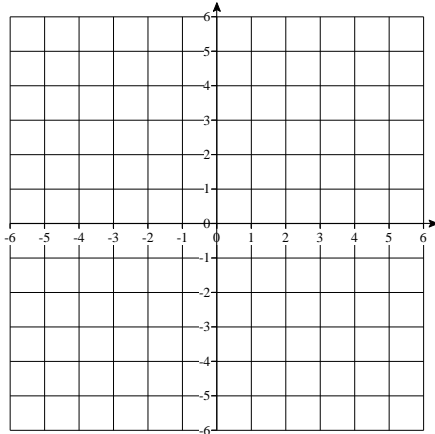
Homework 18

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.

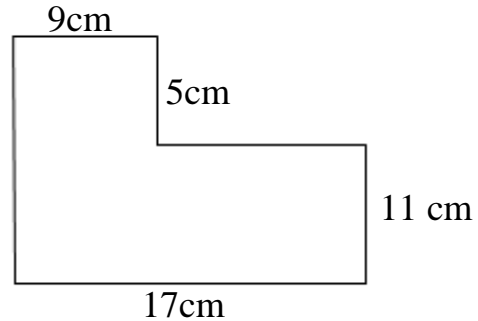
Due in:

<p>1. Circle the prime numbers and draw squares around the square numbers in the list below:</p> <p>17, 23, 36, 37,</p> <p>45, 51, 94</p>	<p>3. Showing a clear written method calculate the product of 85 and 237.</p>
<p>2. Showing a clear written method divide 3864 by 12.</p>	<p>4. Three sevenths of an amount is 24. What is one and one third of the amount?</p>

5. Draw the graph of $y = 2$ on the axes below.



8. Calculate the perimeter of the shape below:



6. Convert 5.6 kilometres into metres then centimetres.

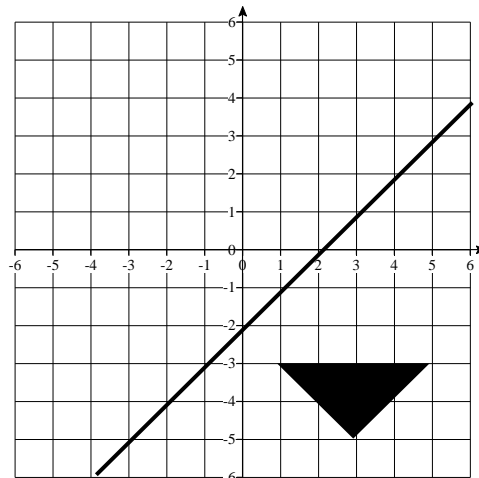
9. Write down the first five terms of the following sequence:

$$T(n) = -2n + 6$$

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

$$7(2x - 3) = 42$$

10. Reflect the shape in the mirror line shown.



<p>11. The dimensions of a cuboid are:</p> <p>Length = x cm Width = 8 cm Height = 5 cm If the volume is 120cm^3, what is the length of the cuboid?</p>	<p>14. Substitute the values $a = 4$, $b = 3$, $c = -2$ into the expression</p> $3a^2 - b(c - 5a)$
<p>12. One of the angles in an isosceles triangle is 102°. What are the other two angles of the triangle?</p>	<p>15. The mean of a set of 6 numbers is 9. Five of the numbers are 1, 2, 3, 8, and 12. What is the sixth number?</p>
<p>13. Estimate the answer to</p> $\frac{4.12^3 \times 1.69}{5.213^2}$	<p>16. Write 526 as the product of its prime factors.</p>

17. A mirror is reduced by 30% in the sales. It originally cost £74. How much is it in the sale?

19. If the graph of $y = 3x - 11$ is drawn what are the coordinates of the y intercept?

18. Calculate the answer using a clear written method:

$$13.47 \times 21$$

20. A circle has a radius of 24.6 cm. What is the circumference? Give your answer to 1 decimal place.

Total:

