

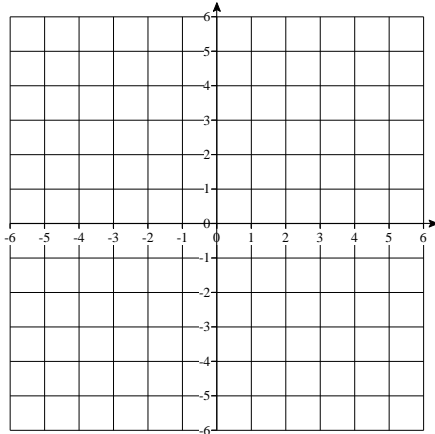
Homework 21

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.

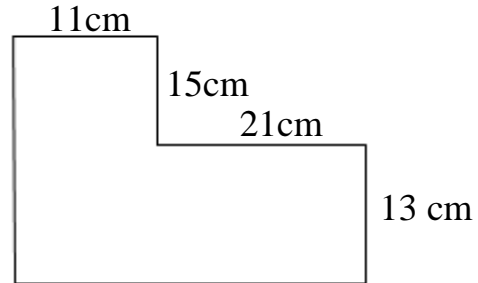
Due in:

1. List all the square numbers between 20 and 80.	3. Showing a clear written method calculate the product of 45 and 416.
2. Showing a clear written method divide 10116 by 18.	4. Three quarters of an amount is 12. What is one and one eighth of the amount?

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



8. Calculate the perimeter of the shape below:



6. Convert 6.9 metres into centimetres then millimetres.

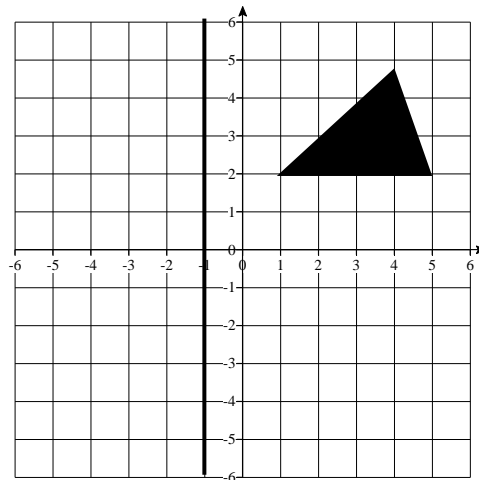
9. Write down the first five terms of the following sequence:

$$T(n) = 8n - 4$$

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

$$4(5x - 3) = 18$$

10. Reflect the shape in the mirror line shown.



<p>11. The dimensions of a cuboid are:</p> <p>Length = 8 cm Width = x cm Height = 6 cm If the volume is 360 cm^3, what is the width of the cuboid?</p>	<p>14. Substitute the values $a = 2$, $b = 6$, $c = -1$ into the expression</p> $2b^2 - 5ac$
<p>12. One of the angles in an isosceles triangle is 112°. What are the other two angles of the triangle?</p>	<p>15. The mean of a set of 5 numbers is 5. Four of the numbers are 2, 3, 5, and 6. What is the fifth number?</p>
<p>13. Estimate the answer to</p> $\frac{43.1^2}{6.40 \times 8.1}$	<p>16. Write 126 as the product of its prime factors.</p>

17. A jumper is reduced by 35% in the sales. It originally cost £48. How much is it in the sale?

19. If the graph of $y = 8x + 15$ is drawn what are the coordinates of the y intercept?

18. Calculate the answer using a clear written method:

$$2.56 \times 12$$

20. A circle has a radius of 6.7 cm. What is the area? Give your answer to 1 decimal place.

Total:

