

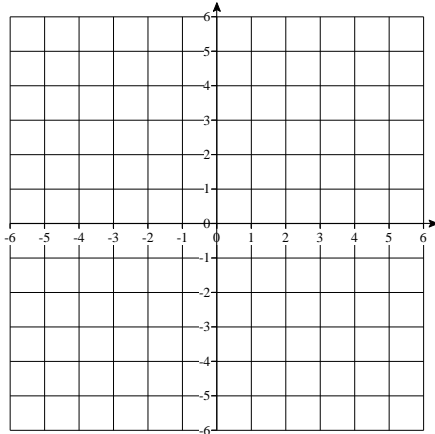
Homework 20

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.

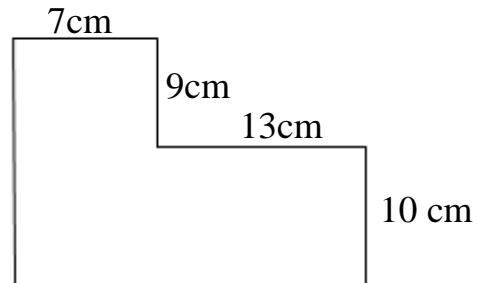
Due in:

1. List all the prime numbers between 20 and 80.	3. Showing a clear written method calculate the product of 54 and 318.
2. Showing a clear written method divide 2852 by 23.	4. Three eighths of an amount is 18. What is one and one quarter of the amount?

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



8. Calculate the perimeter of the shape below:



6. Convert 249 metres into centimetres then millimetres.

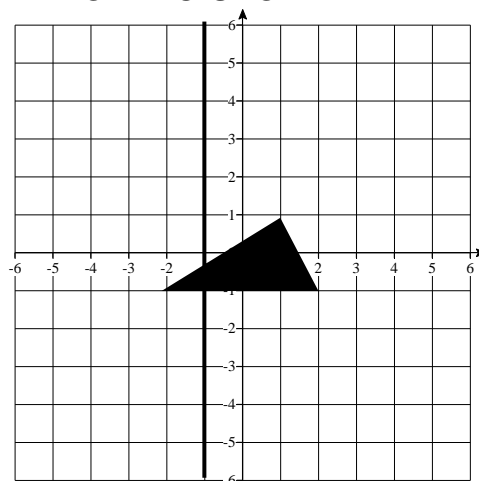
9. Write down the first five terms of the following sequence:

$$T(n) = -5n + 11$$

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

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

10. Reflect the shape in the mirror line shown.



<p>11. The dimensions of a cuboid are:</p> <p>Length = 10 cm Width = x cm Height = 6 cm If the volume is 240 cm^3, what is the width of the cuboid?</p>	<p>14. Substitute the values $a = 5$, $b = 3$, $c = -10$ into the expression</p> $3c^2 - 5abc$
<p>12. One of the angles in an isosceles triangle is 84°. What are the other two angles of the triangle?</p>	<p>15. The mean of a set of 5 numbers is 12. Four of the numbers are 5, 10, 13, and 18. What is the fifth number?</p>
<p>13. Estimate the answer to</p> $\frac{7.92^2 \times 5.04}{6.25 + 3.89}$	<p>16. Write 258 as the product of its prime factors.</p>

17. A kettle is reduced by 22% in the sales. It originally cost £56. How much is it in the sale?

19. If the graph of $y = 11x + 45$ is drawn what are the coordinates of the y intercept?

18. Calculate the answer using a clear written method:

$$11.45 \times 36$$

20. A circle has a radius of 4.7 cm. What is the circumference? Give your answer to 1 decimal place.

Total:

