

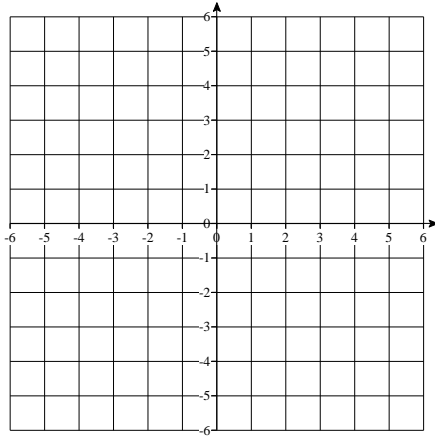
Homework 12

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.

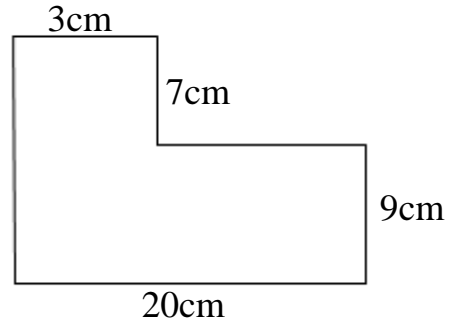
Due in:

<p>1. Circle the prime numbers and draw squares around the square numbers in the list below:</p> <p>11, 54, 83, 121,</p> <p>123, 243, 256</p>	<p>3. Showing a clear written method calculate the product of 58 and 39.</p>
<p>2. Showing a clear written method divide 2610 by 6.</p>	<p>4. One third of Dave's wages pays his rent. He pays £520 per month in rent. How much does he earn?</p>

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



8. Calculate the area of the shape below:



6. Convert 1 kilometre into millimetres.

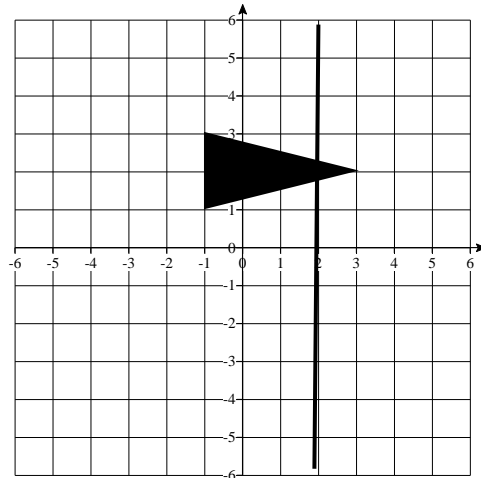
9. Write down the first five terms of the following sequence:

$$T(n) = 4n - 3$$

7. Solve the equation:

$$6x - 7 = 41$$

10. Reflect the shape in the mirror line shown.



11. The dimensions of a cuboid are:

Length = 7cm

Width = 9cm

Height = 5cm

What is the volume of the cuboid?

14. Substitute the values $a = 11$, $b = -4$, $c = 3$ into the expression

$$a^2 + 5b - c$$

12. One of the angles in an isosceles triangle is 50° . What could the other two angles of the triangle be?

15. The mean of a set of 7 numbers is 9. Four of the numbers are 1, 3, 10, 11, 14 and 15. What is the seventh number?

13. Estimate the answer to

$$\frac{48 \times 81}{4.7 \times 19}$$

16. Write 630 as the product of its prime factors.

17. A pair of curtains are reduced by 15% in the sales. They originally cost £90. How much are they in the sale?

19. If the graph of $y = 3x + 7$ is drawn what are the coordinates of the y intercept?

18. Calculate the answer using a clear written method:

$$11.6 \times 7$$

20. A circle has a diameter of 6.5cm. What is the circumference? Give your answer to 1 decimal place.

Total:

