

# Homework 13

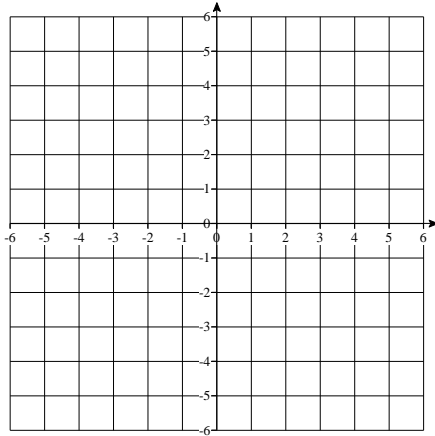
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Where a question asks you to show working, you will only be awarded the mark for a correct answer if it is supported by an appropriate method.

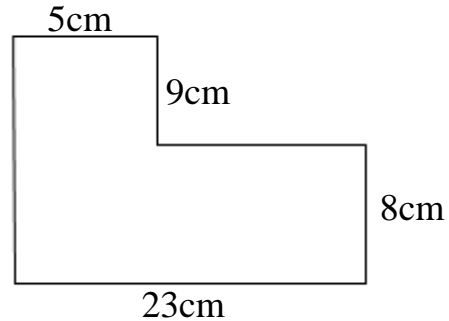
Due in:

<p>1. Circle the prime numbers and draw squares around the square numbers in the list below:</p> <p>10, 13, 15, 23,</p> <p>49, 51, 59, 64</p>	<p>3. Showing a clear written method calculate the product of 42 and 17.</p>
<p>2. Showing a clear written method divide 4383 by 9.</p>	<p>4. One eighth of Sally's wages pays her utility bills. She pays £72 per month for her utilities bills. How much does she earn?</p>

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



8. Calculate the area of the shape below:



6. Convert 2.5 kilometres into centimetres.

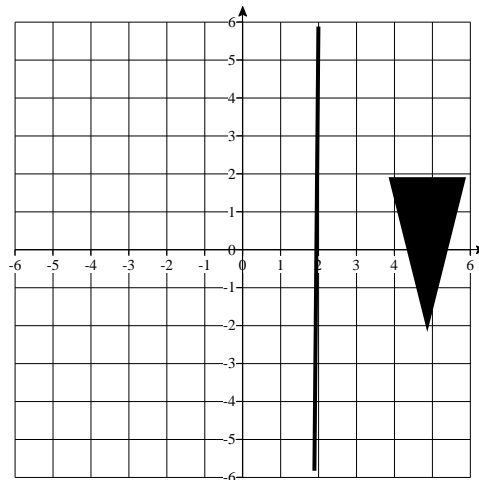
9. Write down the first five terms of the following sequence:

$$T(n) = 3n + 5$$

7. Solve the equation:

$$4x + 3 = 47$$

10. Reflect the shape in the mirror line shown.



<p>11. The dimensions of a cuboid are:</p> <p>Length = 4 cm Width = 11cm Height = 8 cm What is the volume of the cuboid?</p>	<p>14. Substitute the values <math>a = 9</math>, <math>b = 6</math>, <math>c = -3</math> into the expression</p> $a^2 - 6b - 2c$
<p>12. One of the angles in an isosceles triangle is <math>28^\circ</math>. What could the other two angles of the triangle be?</p>	<p>15. The mean of a set of 6 numbers is 7. Five of the numbers are 3, 10, 11, 14 and 15. What is the seventh number?</p>
<p>13. Estimate the answer to</p> $\frac{9.7 \times 34.2}{5.38 \times 2.97}$	<p>16. Write 420 as the product of its prime factors.</p>

17. A lamp is reduced by 12% in the sales. It originally cost £75. How much is it in the sale?

19. If the graph of  $y = 2x + 11$  is drawn what are the coordinates of the y intercept?

18. Calculate the answer using a clear written method:

$$9.36 \times 4$$

20. A circle has a radius of 6 cm. What is the circumference? Give your answer to 1 decimal place.

Total:

