

# Homework 17

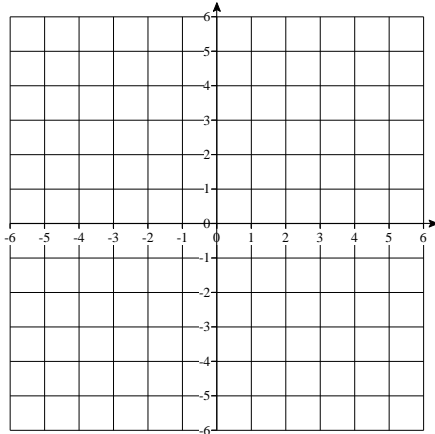
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Where a question asks you to show working, you will only be awarded the mark for a correct answer if it is supported by an appropriate method.

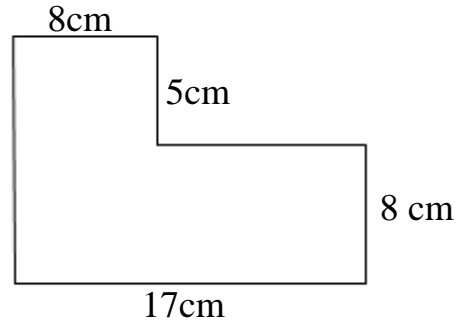
Due in:

<p>1. Circle the prime numbers and draw squares around the square numbers in the list below:</p> <p>11, 21, 25, 31,</p> <p>57, 91, 121</p>	<p>3. Showing a clear written method calculate the product of 73 and 124.</p>
<p>2. Showing a clear written method divide 2346 by 17.</p>	<p>4. Two fifths of an amount is 18. What is one and one third of the amount?</p>

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



8. Calculate the perimeter of the shape below:



6. Convert 2.8 kilometres into metres then centimetres.

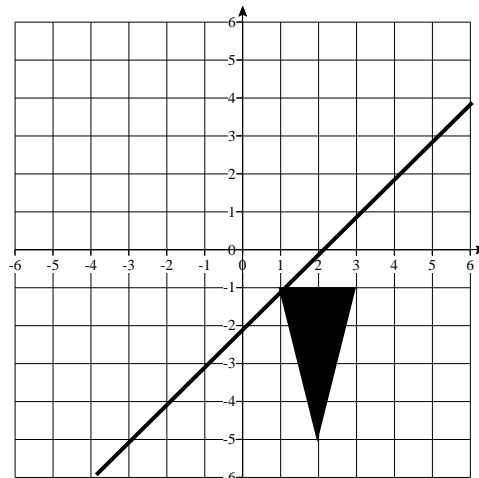
9. Write down the first five terms of the following sequence:

$$T(n) = 3n - 6$$

7. Solve the equation:  
(Note: The answer is a fraction!)

$$3(2x + 4) = 15$$

10. Reflect the shape in the mirror line shown.



<p>11. The dimensions of a cuboid are:</p> <p>Length = 6 cm Width = 3 cm Height = 25 mm What is the volume of the cuboid?</p>	<p>14. Substitute the values <math>a = 5</math>, <math>b = -6</math>, <math>c = 8</math> into the expression</p> $c^2 - 2(b - 2a)$
<p>12. One of the angles in an isosceles triangle is <math>98^\circ</math>. What are the other two angles of the triangle?</p>	<p>15. The mean of a set of 5 numbers is 21. Four of the numbers are 8, 18, 19 and 22. What is the sixth number?</p>
<p>13. Estimate the answer to</p> $\frac{17.9^2 \times 9.8^2}{11.3 \times 4.78}$	<p>16. Write 1008 as the product of its prime factors.</p>

17. A mirror is reduced by 20% in the sales. It originally cost £80. How much is it in the sale?

19. If the graph of  $y = 6x - 7$  is drawn what are the coordinates of the y intercept?

18. Calculate the answer using a clear written method:

$$2.06 \times 13$$

20. A circle has a radius of 10.7 cm. What is the circumference? Give your answer to 1 decimal place.

Total:

