

# Homework 1 Extension

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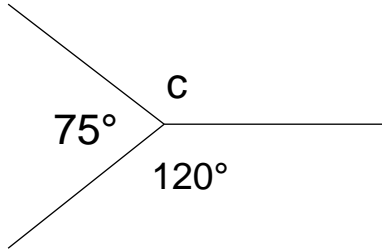
Where a question asks you to show working a correct answer will only be awarded a mark for a correct WRITTEN method. The method you use is more important than the actual answer in helping you to progress in maths.

Due in:

<p>1. Work out:</p> $5^3$	<p>3. Round 6.7493 to 2 significant figures.</p>
<p>2. Calculate <math>14 \times 23</math>. (show your working)</p>	<p>4. 12 out of 30 people chose their favourite colour as blue. Calculate the angle you would use for blue on a pie chart.</p>

<p>5. Find the nth term for the sequence: 5, 9, 13, 17, 21</p>	<p>8. The point (2,4) is translated 3 right. What are the coordinates of the transformed point?</p>
<p>6. Solve the equation <math>5x + 7 = 32</math></p>	<p>9. Work out: <math>-7 - -9</math></p>
<p>7. If <math>x = 7</math> and <math>y = 3</math>, work out <math>3x - 2y</math></p>	<p>10. If <math>t = -4</math> work out <math>t^2</math></p>

11. Calculate the missing angle.



14. If you roll a normal dice 120 times. How many 4's would you expect to get?

12. What do the angles of a quadrilateral add up to?

15. Find 20% of 130.

13. A card is chosen at random from a pack of cards. Find the probability of choosing a diamond.

16. Find  $\frac{4}{5}$  of 35

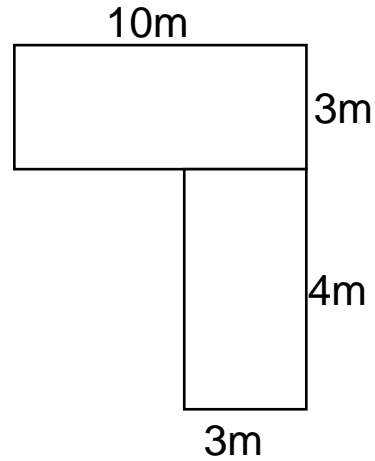
17. Which two lines are parallel? Circle your answers.

$$y = 3x + 2$$

$$y = 3x + 4$$

$$y = 2x + 4$$

19. Find the area of this shape.



18. Convert 8 inches into cm.

20. Find the mean of these numbers

4, 8, 8, 9, 11

Total:

