

## Homework 8 Extension

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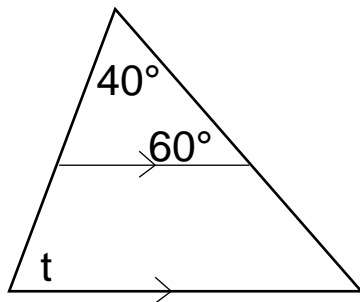
Where a question asks you to show working a correct answer will only be awarded a mark for a correct WRITTEN method. The method you use is more important than the actual answer in helping you to progress in maths.

Due in:

<p>1. Use your calculator to work out the following</p> $5.3^4$	<p>3. By rounding each number to 1sf, estimate the answer to</p> $256 \times 75$
<p>2. Calculate <math>312 \times 42</math> (show working)</p>	<p><math>4.72^\circ</math> is used in a pie chart to represent 4 people. How many people were there altogether?</p>

<p>5. Find the nth term for the sequence</p> <p>1, 4, 9, 16, 25, 36...</p>	<p>8. The point n(4,0) is rotated 90° anticlockwise about the point (0,0). What are the coordinates of the transformed point?</p>
<p>6. Solve the equation</p> $8x + 4 = 58 - x$	<p>9. Work out</p> $-2 + (-3)^2 \times -10 - -50$
<p>7. If <math>x = 10</math>, <math>y = 0.5</math> and <math>z = 19</math> work out</p> $\frac{z - x}{y}$	<p>10. Explain briefly why it is not possible to work out</p> $\sqrt{-25}$

11. Calculate the missing angle



14. A fair spinner is numbered 1 to 8. It is spun 768 times. How many times would you expect to get a square number?

12. A regular polygon has an exterior angle of  $18^\circ$ . How many sides does it have?

15. Find 2.5% of 80.

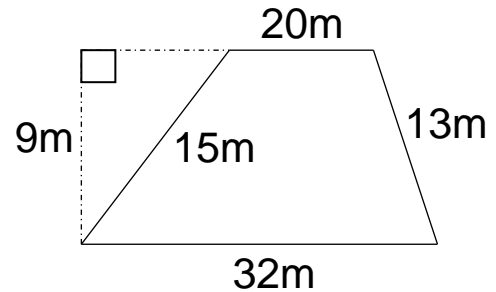
13. The probability David is early to school is 0.1, and he is late 4 out of 10 times. What is the probability he is on time?

16.  $\frac{5}{9}$  of a number is 25. What is the number?

17. Which point is not on the line  $y = 3x + 1$ ? Circle your answer.

(0,1)    (3,9)    (2,7)

19. Find the area of this shape



18. Share £120 in the ratio 4:1:2:3

20. Find the mean from this frequency table.

x	10	20	30	40
f	8	3	6	3

Total:

