

## Homework 6 Extension

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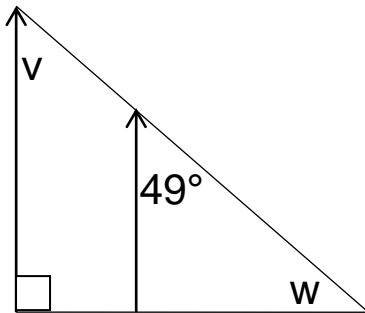
Where a question asks you to show working a correct answer will only be awarded a mark for a correct WRITTEN method. The method you use is more important than the actual answer in helping you to progress in maths.

Due in:

<p>1. Work out</p> $10^6$	<p>3. Round 9.995 to 1 significant figure.</p>
<p>2. Calculate <math>3 \times 4 \times 5 \times 6</math> (show working)</p>	<p>4. <math>45^\circ</math> is used in a pie chart to represent 6 people. How many people were there altogether?</p>

<p>5. Find the nth term for the sequence</p> $45, 40, 35, 30\dots$	<p>8. The point (0,5) is reflected in the line <math>y=x</math>. What are the coordinates of the transformed point?</p>
<p>6. Solve the equation</p> $7x - 11 = 19 - 3x$	<p>9. Work out <math>-4x - 3 + 2x - 6</math></p>
<p>7. If <math>x = 4</math>, <math>y = 8</math> and <math>z = 11</math> work out</p> $xyz - y^2$	<p>10. Use the formula <math>F = 1.8C + 32</math> to convert <math>-20^\circ\text{C}</math> into Fahrenheit.</p>

11. Calculate the missing angles.



14. There are 20 counters in a box. A counter is chosen and replaced 100 times, the results are 32 blue and 68 red. How many of each colour do you think there are in the box?

12. Find the size of each exterior angle in a regular hexagon.

15. Find 6% of 150.

13. Two coins are flipped. Draw a sample space diagram to show all possible outcomes.

16.  $\frac{2}{9}$  of a number is 12. What is the number?

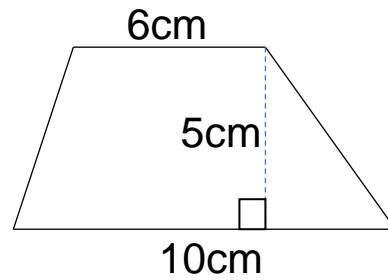
17. Which line is the rule for the y axis? Circle your answer.

$y = x$

$y = 0$

$x = 0$

19. Find the area of this shape.



18. Share £240 in the ratio 8:3:1

20. Find the mean from this frequency table.

x	1	2	3	4
f	2	2	5	1

Total:

