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:

1. Use your calculator to work out the following to 2dp.	3. By rounding each number to 1sf, estimate the answer to
3√350	0.00463 x 5.293
2. Calculate 299 x 48 (show working)	4. 108° is used in a pie chart to represent 12 people. How many people were there altogether?

5. Find the nth term for the following sequence 3, 3.5, 4, 4.5, 5,	8. The point (2,6) is rotated 180° anticlockwise about the point (0,0). What are the coordinates of the transformed point?
6. Solve the equation	9. Work out
6x + 4 = 100 – 2x	9 + (-8) <sup>2</sup> ÷ 2- 3 <sup>2</sup>
7. If $x = 4$ , $y = 9$ and $z = 13$ work out $x + 3y^2z$	10. What are the <b>2</b> square roots of 16?

11. Calculate the values of a and x. $a - 60^{\circ} a^{\circ} a - 30^{\circ}$	14. A fair 20 sided dice is rolled 1000 times. How many times would you expect to roll a multiple of 6?
12. A regular polygon has an exterior angle of 24°. How many sides does it have?	15. Find 17.5% of 160.
13. The probability Emma is early to school is 0.05 and she is late 3 out of 20 times. What is the probability that she is on time?	16. $\frac{7}{8}$ of a number is 14. What is the number?

17. Which point is not on the line $y = 5x - 6$ ? Circle your answer.	19. Find the area of this shape.
(1,-11) (2,4) (0,-1)	20cm
18. Share £105 in the ratio	20. Find the mean from this
7:2:2:4	frequency table
	x 11 12 13 14
	f 3 5 1 1

## Total:

