## Homework 11

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:

The radius of a circle is 6.5 cm. Calculate its area. Give your answer correct to 2dp	3. Using a clear written method: Add three-quarters and five-eighths
2. Find the HCF of 28 and 126.	4. Simplify the following expression.  a <sup>5</sup> x a <sup>6</sup> x a

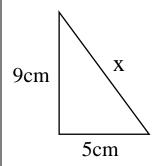
5. One of the angles in an isosceles triangle is 70°. What could the other two angles of the triangle be?	8. ¾ of an amount is £45. What is 2 ½ times the amount?
6. The mean of a set of 5 numbers is 13. Four of the numbers are 6, 10, 11 and 15. What is the fifth number?	9. Share 480 in the ratio 2:3:5
7. A pair of jeans are reduced by 25% in the sales. They originally cost £35. How much are they in the sale?	10. Write down the first 5 terms of the sequence T(n) = 3n - 4

11.	Solve the	equation:
-----	-----------	-----------

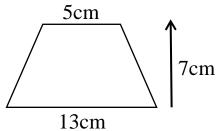
$$5x - 8 = 2(x + 6)$$

14. Round 5739 to 2 significant figures.

15. Calculate the length of the side marked x. Show your working.



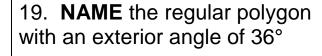
13. Calculate the area of the shape:



16. Expand and simplify:

$$(2m + 5)(m - 4)$$

17. Bisect the angle using compasses and a straight edge.



18. A rectangle base 38mm and height 27mm is enlarged by a scale factor of 3. What is the perimeter of the new rectangle?

20. Write the equation of a line which is parallel to:

$$y = 3x - 4$$

Total:

