Homework 19

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:

1. The diameter of a circle is 248mm. Calculate its area. Give your answer correct to 2dp	3. Using a clear written method: $\frac{7}{9} - \frac{5}{8}$
2. Find the LCM of 12 and 15.	4. Simplify the following expression. 4c8 x 6a3 3a2

5. One of the angles in an isosceles triangle is 92°. What could the other two angles of the triangle be? (Hint: there are two possible solutions!)	8. $\frac{3}{8}$ of an amount is \$18. What is 4 times the amount? Show your working out.
6. The mean of a set of 5 numbers is 4. Four of the numbers are 2, 3, 5 and 9. What is the fifth number?	9. Share £336 in the ratio 4:7:6.
7. A kettle is reduced by 22% in the sales. It originally cost £56. How much is it in the sale?	10. Write down the first 5 terms of the sequence T(n) = 3n - 9

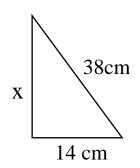
11.	Solve the	equation:
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$$5(2x + 3) - 2(x - 4) = 79$$

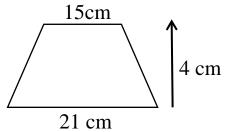
14. Round 1578 to 2 significant figures.

12. Convert 58 litres into pints.

15. Calculate the length of the side marked x. Show your working giving your answer to 1 decimal place.



13. Calculate the area of the shape:



16. Expand and simplify:

$$(2x - 3)(5x + 2)$$

- 17. Construct a perpendicular from the point marked through the line using compasses and a straight edge.
- 19. What is a regular polygon with an exterior angle of 11.25° called?

(You will need to look the name up)

- 18. A circle has a diameter of 8cm. It is enlarged by a scale factor of 2.5. What is the circumference of the new
- 20. Write the equation of a line which is parallel to:

$$y = 3(4x - 7)$$

Total:

circle?

