Homework 13

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
21cm. Calculate its area.
Give your answer correct to
2dp

3. Using a clear written method:Add four-fifths to six-sevenths.

4. Simplify the following expression.

$$a^{10} \times a^{-4} \div a^{3}$$

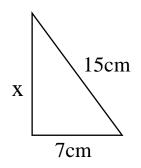
One of the angles in an 8. % of an amount is £21. What is 2½ times the amount? isosceles triangle is 48°. Show your working out. What could the other two angles of the triangle be? (Hint: there are two possible solutions!) The mean of a set of 5 Share 240 in the ratio 2:3:1 numbers is 23. Four of the numbers are 16, 19, 25 and 17. What is the fifth number? 10. Write down the first 5 7. A dress is reduced by terms of the sequence 45% in the sales. It T(n) = 5n - 12originally cost £120. How much is it in the sale?

11. Solve	the equation:
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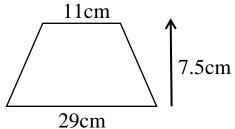
$$3(2x + 3) = 2x - 7$$

14. Round 1075.8 to 1 significant figure.

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



13. Calculate the area of the shape:



16. Expand and simplify:

$$(m + 7)(m - 5)$$

17. Construct perpendicular bisector using compasses and a straight edge.	19. NAME the regular polygon with an exterior angle of 30°
18. A rectangle base 10cm and height 15cm is enlarged by a scale factor of 5. What is the perimeter of the new rectangle?	20. Write the equation of a line which is parallel to: $y = 6x + 1$

Total:

