Homework 12

Due in:

1. Evaluate 3^4	3. Estimate the answer to $\dfrac{84.91+12.65}{4.7\times2.8}$. Please show your intermediate rounding.
2. $\dfrac{3}{4} \times \dfrac{5}{6}$ (show working)	4. What is the inverse function for $x \rightarrow \dfrac{x}{2} + 3$

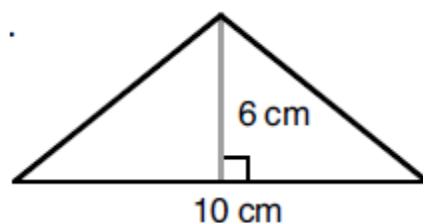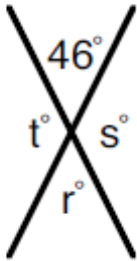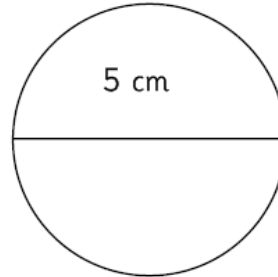|	
5. What is the nth term of this sequence? 2, 8, 18, 32, 50, . . .	8. If you translate the point (1,7) by $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$, what are its new coordinates?
6. Solve 5x + 2 = 7x - 4	9. Showing a complete written method calculate, $$544 \div 4$$
7. Substitute a = 4 and b = -2 into $3a^2 - 5b$	10. Find the area of this shape. (show working) 6 cm 10 cm

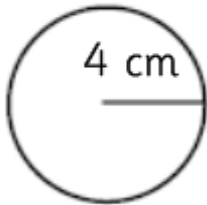|	
11. r = s = t = 46° t° s° r° (show working)	14. What is the circumference of this circle? (show working) 5 cm
12. What is the interior angle of a regular decagon?	15. What is £180 increased by 35%?
13. A bag contains 5 red, 6 green and 7 blue counters. A counter is taken at random, replaced and then a second counter is taken from the bag, what is the probability they are both red?	16. What is $\frac{3}{7}$ of $\frac{4}{7}$ of 49?

17. What is the area of this circle? (show working) 4 cm	19. What is the height of a parallelogram which has an area of 44 cm^2, and a base of 11 cm. (show working)
18. Divide £35 in the ratio 2:5	20) The mean of 4 numbers is 12. Three of the numbers are 10, 11 and 12, what is the 4th number?

Total: