

# Homework 13

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Due in:

1. Evaluate $9^2$	3.Round 0.046 to 1 s.f.
2. $34 \times 57$ (show working)	4. In a class of 72 pupils, if 20 pupils favourite subject in maths, what <u>angle</u> would that be on a pie chart?

5. What is the nth term of this sequence?  
-1, 3, 7, 11, 15, . . .

8. If you translate the point (4,3) by  $\begin{pmatrix} -1 \\ 4 \end{pmatrix}$ , what are its new coordinates?

6. Solve  $4x - 1 = 5x - 6$

9. What is  $14 - 2 \times 3$ ?

7. Substitute  $a = -3$  and  $b = 6$  into

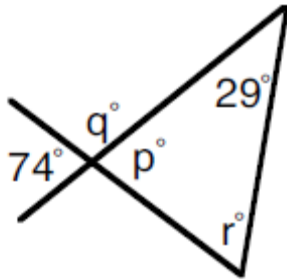
$$a^2 + 3b$$

10.  $288 \div 18$  (show working)

11.  $q =$

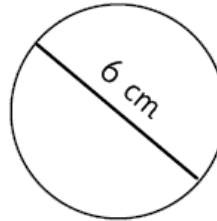
$p =$

$r =$



(show working)

14. What is the circumference of this circle? (show working)



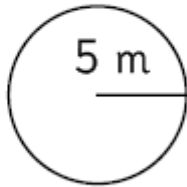
12. What is the interior angle of a regular octagon?

15. What is 20% of 240?

13. A bag contains 4 red, 5 green and 4 blue counters, a counter is taken at random from the bag, what is the probability it is blue?

16. What is  $45 \times \frac{4}{5}$ ?

17. What is the area of this circle? (show working)



19. What is the width of a rectangle which has an area of  $48 \text{ cm}^2$ , and a length of 8 cm. (show working)

18. Divide £51 in the ratio 12:5

20. What is the mean of these numbers?  
3, 9, 8, 2, 1

Total:

