

Homework 13

Due in:

| | |
|--|--|
| 1. Evaluate 2^7 | 3. Estimate the answer to $\frac{56.1 \times 47.9}{91.6 + 12.1}$. Please show your intermediate rounding. |
| 2. $\frac{3}{4} \div \frac{5}{6}$ (show working) | 4. What is the inverse function for $x \rightarrow \frac{x+4}{3}$ |

5. What is the nth term of this sequence?
1, 8, 27, 64, 125, . . .

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

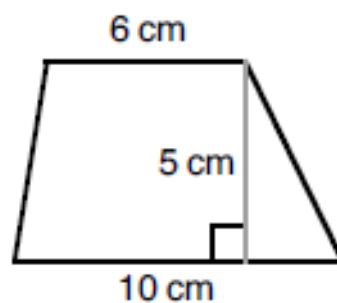
6. Solve $4x - 1 = 5x - 6$

9. Showing a complete written method calculate,
 $120 \div 5$

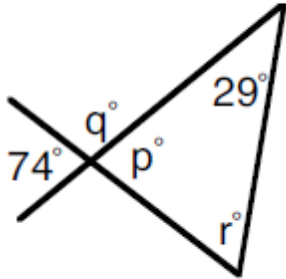
7. Substitute $a = -6$ and $b = 7$ into

$$3a^2 - 5b$$

10. Find the area of this shape.
(show working)

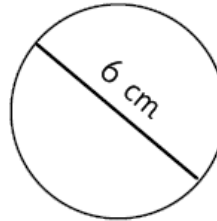


11. $q =$
 $p =$
 $r =$



(show working)

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



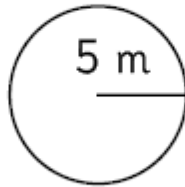
12. What is the interior angle of a regular octagon?

15. What is £240 increased by 20%?

13. A bag contains 3 red, 5 green and 6 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 $\frac{4}{9}$ of $\frac{4}{5}$ of 45?

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



19. What is the height of a parallelogram which has an area of 50 cm^2 , and a base of 10 cm. (show working)

18. Divide £51 in the ratio 12:5

20. The mean of 5 numbers is 9. 4 of the numbers are 6, 11, 15 and 5. What is the 5th number?

Total:

