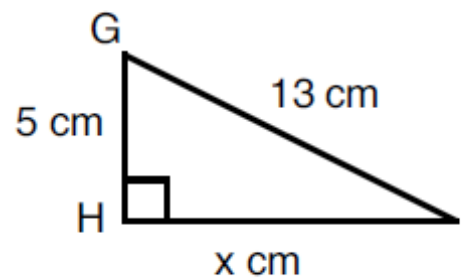# Homework 13

Due in:

1. Evaluate 2^{-1}	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 $x \to \frac{x+4}{3}$

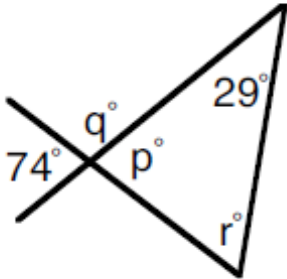|	
5. What is the 58th term of this sequence? 1, 8, 27, 64, 125, . . .	8. If you translate the point (4,3) by $\begin{pmatrix} -1 \\ 4 \end{pmatrix}$, what are its new coordinates?
6. Solve $4x - 1 \leq 5x - 6$	9. What is the value of x?
7. Substitute a = -6 and b = 7 into $3a^2 - 5b$	10. Expand and simplify; $(x - 9)^2$

11. q = p = r = (show working)	14. You must show your working out. 2.5 x 28
12. What is the interior angle of a regular octagon?	15. What is £240 increased by 20%?
13. A line is measured as 5cm correct to the nearest cm. Write the error interval to show all the possible lengths.	16. What is $\frac{4}{9}$ of $\frac{4}{5}$ of 45?

17. What are the gradient and the coordinates of the y intercept of the graph $$2y= 4x + 10$$	19. . Solve the equation; $$5 – 4x = -3$$
18. Alice and Ben share some money in the ratio 8:5. Ben receives £32. How much does Alice receive?	20. A rectangle 3cm by 5cm is enlarged by a scale factor of 5. What is the perimeter of the enlarged shape?

Total:

⭐
⭐