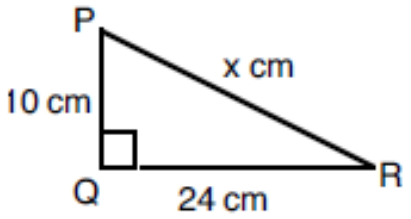
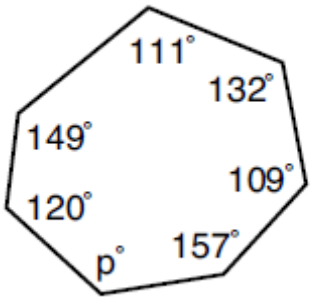
Homework 11

Due in:

Q2: You must use the cross-cancelling technique.

1. Evaluate $64^{½}$	3. Estimate the answer to $\frac{27.91+7.87}{0.46\times1.75}$
2. $\frac{5}{7}\times\frac{2}{5}$ (show working)	4. What is the inverse function for $x \rightarrow 4x+7$

5. Is 300 in this sequence? Give a reason for your answer.2, 5, 10, 17, 26. . .	8. If you reflect the point (1,7) in the x axis, what are its new coordinates?
6. Solve $4x - 4 > 3x - 1$	9. What is the value of x? 
7. Substitute a = -4 and b = -3 into $2a^2 + 3b$	10. Expand and simplify; $(3x – 5)(x – 4)$

11. p =  (show working)	14. If you rolled a 8 faced die, numbered 1 to 8, 32 times, how many prime numbers would you expect to get?
12. What is the exterior angle of a regular nonagon?	15. Increase 40 by 15%
13. A piece of timber is cut to 1.5m with a 10% error interval. Write an inequality to show the possible lengths.	16. What is $\frac{3}{5}$ of $\frac{5}{7}$ of 35?

17. What are the gradient and the coordinates of the y intercept of the graph $y = 3x + 1$	19. Solve the equation; $4 - 3x = 1$
18. Alice and Ben share some money in the ratio 2:5. Alice receives £27. How much does Ben receive?	20. A rectangle 6cm by 5cm is enlarged by a scale factor of 2. What is the area of the enlarged shape?

Total: