Homework 10

Due in:

Q2: You must use the cross-cancelling technique.

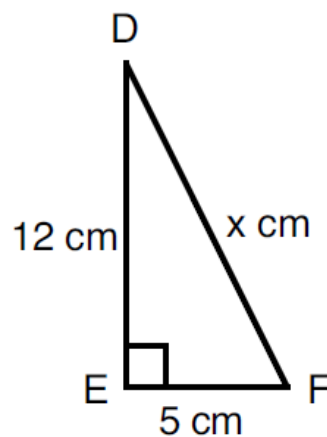| 1. Evaluate $49^{\frac{1}{2}}$	3. Estimate the answer to $\dfrac{14.1+9.5}{2.2\times4.8}$
2. $\dfrac{3}{8} \times \dfrac{4}{9}$ (show working)	4. What is the inverse function for $x \rightarrow 2x - 5$

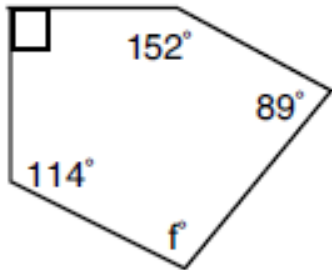|	
5. Is 169 in this sequence? Give a reason for your answer. 1, 4, 9, 16, 25, . . .	8. If you reflect the point (2,5) in the y axis, what are its new coordinates?
6. Solve $2x + 10 > 3x - 1$	9. What is the value of x?
7. Substitute a = -3 and b = -2 into $2a^2 + 3b$	10. Expand and simplify; $(2x + 3)(x - 2)$

11. f = 152° 89° 114° f° (show working)	14. If you rolled a 4 faced die, numbered 1 to 4, 36 times, how many 1's would you expect to get?
12. What is the exterior angle of a regular hexagon?	15. Increase 250 by 35%
13. A journey is 2.0km to 1dp. Write the error interval for this distance.	16. What is $\frac{2}{9}$ of $\frac{3}{8}$ of 48?

17. What are the gradient and the coordinates of the y intercept of the graph $y = 4x - 5$	19. Solve the equation; $$100x - 1 = 98$$
18. Alice and Ben share some money in the ratio 9:5. Alice receives £27. How much does Ben receive?	20. A rectangle 3cm by 5cm is enlarged by a scale factor of 3. What is the perimeter of the enlarged shape?

Total:

⭐
⭐