## Homework 12

Due in:
Q2: You must use the cross-cancelling technique.

| 1. Evaluate $3^{-1}$ | 3. Estimate the answer to <br> $\frac{84.91+12.65}{4.7 \times 2.8}$. <br> Please show your intermediate <br> rounding. |
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| 2. $\frac{3}{4} \times \frac{5}{6}$ (show working) | 4. What is the inverse function <br> for $x \rightarrow \frac{x}{2}+3$ |


| 5. Is 225 in this sequence? Give a reason for your answer. $2,8,18,32,50, \ldots$ | 8. If you translate the point $(1,7)$ by $\binom{3}{-2}$, what are its new coordinates? |
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| 6. Solve $5 x+2<7 x-4$ | 9. What is the value of $x$ ? |
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| 7. Substitute $a=2 / 3$ and $b=-2$ into $3 a^{2}-5 b$ | 10 Expand and simplify; $(x+6)^{2}$ |


| 11. $\mathrm{r}=$ $\begin{aligned} & \mathrm{S}= \\ & \mathrm{t}= \end{aligned}$ <br> (show working) | 14. You must show your working out. $0.25 \times 16$ |
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| 12. What is the interior angle of a regular decagon? | 15. What is $£ 180$ increased by $35 \%$ ? |
| 13. A length of ribbon measures 15 m with a $5 \%$ error interval. Write an inequality to show all the possible lengths. | 16. What is $\frac{3}{7}$ of $\frac{4}{7}$ of 49 ? |


| 17. What are the gradient and <br> the coordinates of the y <br> intercept of the graph <br> $y=4 x-7$ | 19. Solve the equation; <br> $-x-4=-3$ |
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## Total:

