

## Joshua's Tricky Questions

1. How many Km is 2cm on a 1:250,000 map?
2. A map of Australia is drawn to a scale of 1:750,000. What is the real distance along the ground represented by 2cm on the map?
3.  $Y = \frac{1}{4}$  of  $x$ . What is another way of saying this?
4. What is the expression for the  $n$ th term in this series?  
2 5 8 11 14
5. Deirdre watches  $4x$  hours of soaps a week and Richie watches  $2x$  hours of soaps a week. If they watch 12 hours of soaps per week between them, what is the value of  $x$ ?
6. What fraction of 4m is 80cm?
7.  $3x + 2 = -2x + 12$  What is the value of  $x$ ?
8. A die has the numbers 1-6 on it. When I roll it, what is the probability that I land on an even number?
9. James has  $x$  marbles and divides them equally into  $y$  bags. How many marbles in each bag?