1) Make x the subject of $y = ax^2 - 4$

2) Divide 400kg in the ratio 3 : 5

3) Work out the value of $3x^2 + y$ when $x = -2$ and $y = 6$

4) The mean of 7, 12, 3, x, 11 is 9. Find x

5) Solve $\frac{x}{2} + 6 = 3x - 14$