## Intro to Solving Quadratics by Factorisation

1. What can we conclude about this statement?

$$
{ }_{-}^{\times}=0
$$

2. So what about this statement?

$$
(x-2) \times(x-3)=0
$$

3. Solve this:

$$
x^{2}+5 x+6=0
$$

4. Solve this, where negatives are involved:

$$
x^{2}+x-20=0
$$

5. Sometimes there appears to be no $x$ term:

$$
x^{2}-9=0
$$

6. Sometimes the answer is repeated:

$$
x^{2}-14 x+49=0
$$

7. Sometimes there appears to be no constant term:

$$
x^{2}+4 x=0
$$

8. Sometimes we try to think too much:

$$
x^{2}=100
$$

9. Sometimes the answer is a fraction:

$$
2 x^{2}+5 x+3=0
$$

10. Sometimes we have to create the question for ourselves:

$$
x^{2}+30=11 x
$$

11. Sometimes we have to work hard to create the question for ourselves:

$$
x^{2}=\frac{-5 x}{2}-6
$$

