

Master Maths 7 Worksheet 31

Solving Equations - Trial and Error

31

Name:

An example of the 'trial and error' method of solving equations is shown here.

Find n in the equation $3n + 7 = 34$

Guess for n	Left side $3n + 7$	Right side 34	Comment
4	19	34	Too low
8	31	34	Too low
10	37	34	Too high
9	34	34	Correct

Answer: $n = 9$

Use the 'trial and error' method to find the value of n in the following equations.

1. $5n - 7 = 48$

Guess for n	Left side	Right side	Comment

$n =$

2. $6n - 5 = 85$

Guess for n	Left side	Right side	Comment

$n =$

3. $n^2 + 2n - 5 = 30$

Guess for n	Left side	Right side	Comment

$n =$

4. $3n + 7 = 5n - 9$

Guess for n	Left side	Right side	Comment

$n =$

5. $3(n + 6) = 9(n - 6)$

Guess for n	Left side	Right side	Comment

$n =$