

## Spicy & Extra Hot -Solving algebra problems

Work out the value of **n** in these equations:

1.  $40 \times n = 240$

2.  $n - 79 = 168$

3.  $5n + 12 = 52$

4.  $3(n \div 12) = 30$

5.  $4n \div 2 = 80$

6.  $3(n + 56) = 180$

7.  $7n \times 3 = 315$

8.  $(58 - n) \times 9 = 450$

9.  $6n + 30 = 84$

10.  $(7 \times 8) + 4n = 92$

### Challenge

Use trial and improvement to find the value of **n** in each equation.

11.  $n^2 - n = 90$

12.  $n^2 + n = 72$

Each letter represents a positive integer.  
What is the value of each letter?

13.  $p - q = 60$

The sum of **p** and **q** is 160.

14.  $6n - 27 = 0$

**To be handed in by Thursday 11<sup>th</sup> June**