

Try it!



1. What is the value of the letter in each equation?

| | |
|-------------|-------|
| $18 = 3a$ | $a =$ |
| $7b = 35$ | $b =$ |
| $108 = 12c$ | $c =$ |
| $19d = 57$ | $d =$ |

2. If $n = 31$, what is $4n + 18$?

3. Find the value of p :

$$7p - 45 = 18$$

Apply it!



1. Josh is helping his mum roast a turkey. The instructions say:
 - *cooking time = 20 minutes plus an extra 35 minutes for each kg.*

The turkey Josh is helping to cook weighs 4 kilograms. How long will it take to cook?

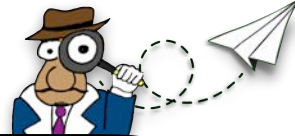
1a. Roman's turkey took 225 minutes to cook. How much did the turkey weigh?

2. Look at this table:

| Sequence (s) | Number (n) |
|--------------|------------|
| 1 | 7 |
| 2 | 11 |
| 3 | 15 |
| 4 | 19 |
| 5 | 23 |

- Complete the equation below.
- $s = (n \times \underline{\quad}) - \underline{\quad}$
- Use the equation to work out what will be the 12th number in the sequence. What about the 31st number in the sequence?

Fly with it!



1. Roman creates a table with missing data. Complete Roman's table:

| n | 3n | 3n+6 |
|----|----|------|
| 13 | | |
| | 15 | |
| | | 63 |

2. Aisha uses the equation $q = 7$ for the formula $12q - 8$. She says "The answer is 86. Is Aisha correct? Prove it!"

3. Josh writes down a sequence of numbers.

2 5 8 11 14 17 20

He says "Even though the rule for this sequence is *add 3 each time*, I will never land on a multiple of 3." Is Josh right? Explain your answer.