

Question of the day Day 4

Mo's tyre pressure gauge shows a reading which is 12% higher than the actual pressure.

What is the actual pressure when Mo's gauge shows 38.64?

This is a reverse percentage question, we know this because it says '12% higher than the actual pressure' and that the 'gauge shows 38.64.'

Calculate the multiplier for 12% higher.

$$100\% + 12\% = 112\% = 1.12$$

Method 1

$$\frac{38.64}{1.12} = 34.5$$

or Method 2

$$\begin{array}{l} \div 112 \left(\begin{array}{l} 112\% = 38.64 \\ 1\% = 0.345 \end{array} \right) \div 112 \\ \times 100 \left(\begin{array}{l} 100\% = 34.5 \end{array} \right) \times 100 \end{array}$$

..... 34.5 [3]

Foundation