LC: Can I recognise decimal and fraction equivalents?

Let's recap on some things we know about fractions first ...

What have all these got in common?

$$\frac{4}{4} \quad \frac{2}{2} \quad \frac{6}{6} \quad \frac{13}{13} \quad \frac{1256}{1256} = 1$$

If the **Numerator** and the **Denominator** are the same, then the fraction equals 1

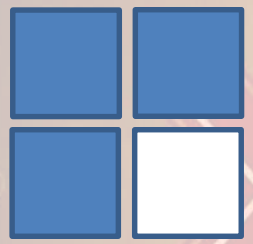
Fraction and Decimal Equivalence

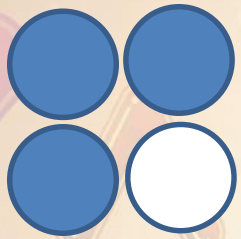
If the Denominator is 1
then the fraction is a whole number,
equal to the Numerator.

$\frac{4}{1} = 4$ $\frac{8}{1} = 8$ $\frac{21}{1} = 21$

Fraction and Decimal Equivalence

Spot the odd one out ...





$\frac{3}{8}$

$\frac{1}{2}$ $\frac{4}{8}$ $\frac{2}{3}$ $\frac{3}{6}$ $\frac{6}{12}$ $\frac{5}{10}$

Fraction and Decimal Equivalence

Key Questions:

What does ‘equivalence’ mean?
What is a fraction?
What is a decimal?

Fraction and Decimal Equivalence

Equivalence means 2 or more things that are the same.

A **fraction** is a word used to describe parts of a whole.

A **decimal** also describes a part of a whole, but we write it using numbers and a decimal point, for example 0.5

Fraction and Decimal Equivalence

So, how do we work out a decimal?

It's simple! We get any fraction and divide the Numerator by the Denominator

Let's work out an example ...

$$\frac{1}{2}$$

1 ← Divide the Numerator, 1

2 ← by the Denominator, 2

so, 1 ÷ 2 = 0.5

Fraction and Decimal Equivalence

Calculators ready? Let's do some ...

$\frac{1}{4} = 0.25$ $\frac{1}{3} = 0.3$ $\frac{1}{6} = 0.16$

$\frac{1}{8} = 0.125$ $\frac{1}{10} = 0.1$ $\frac{1}{5} = 0.2$

Fraction and Decimal Equivalence

So, let's try these problems …

If 1 half is 0.5, 2 halves is …

If 1 third is 0.3, 2 thirds is …

If 1 tenth is 0.1, 4 tenths is …

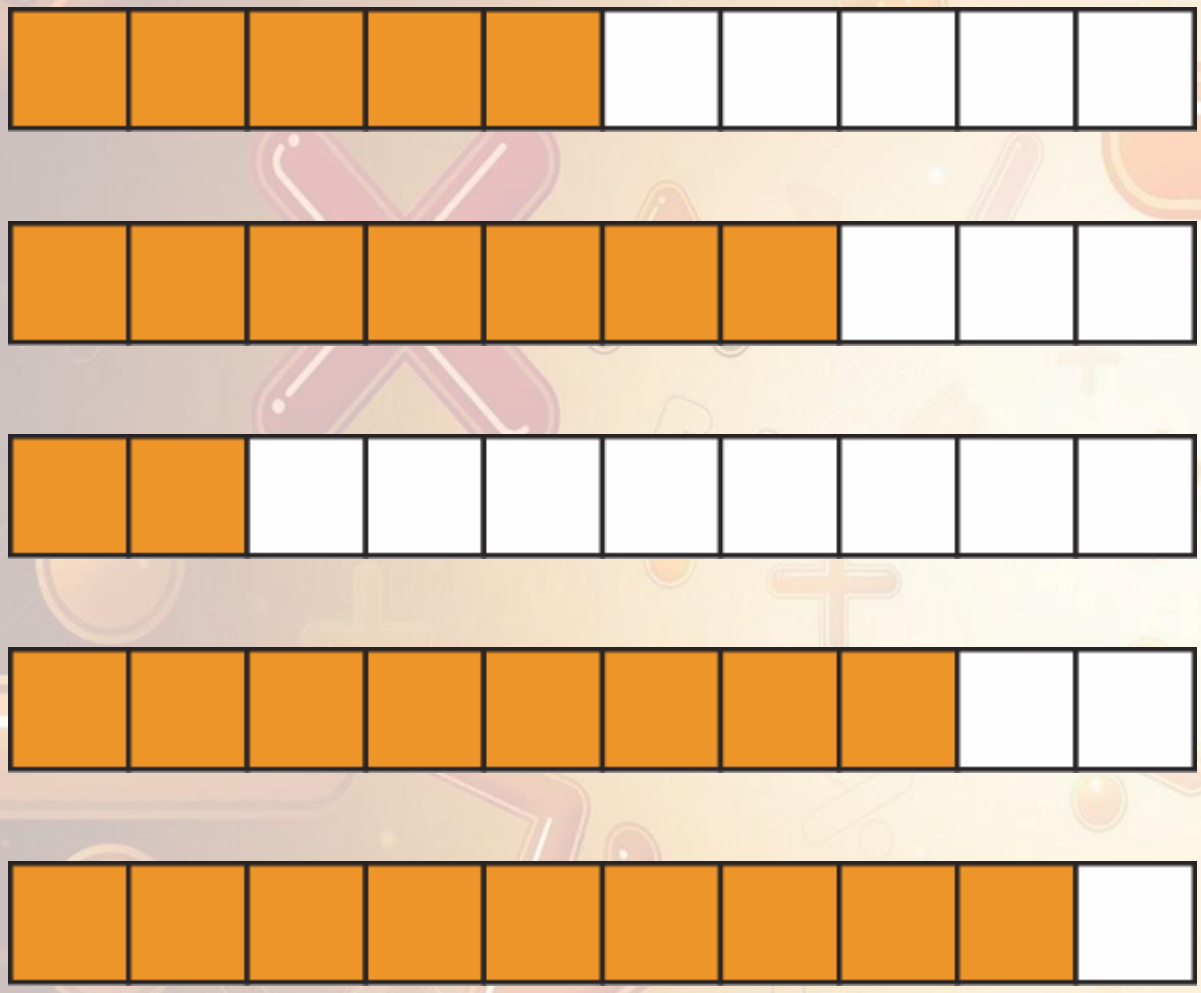
If 1 quarter is 0.25, 3 quarters is …

If 1 fifth is 0.2, 4 fifths is …

If 5 tenths is 0.5, this is equivalent to …

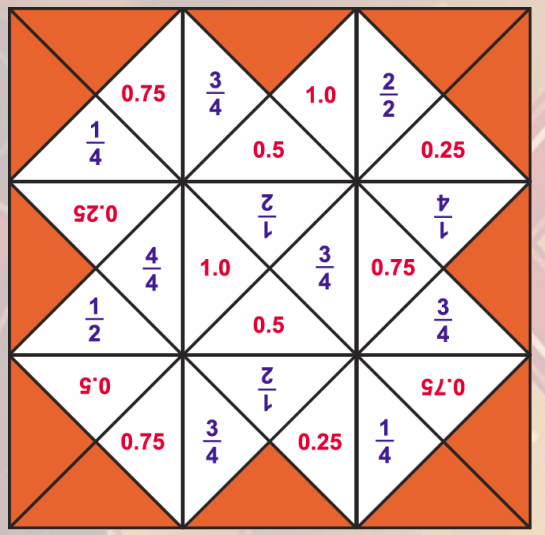
Fraction and Decimal Equivalence

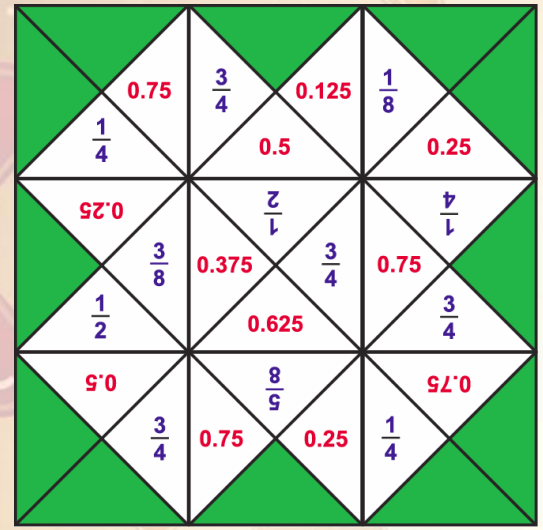
Can you work out these decimals?

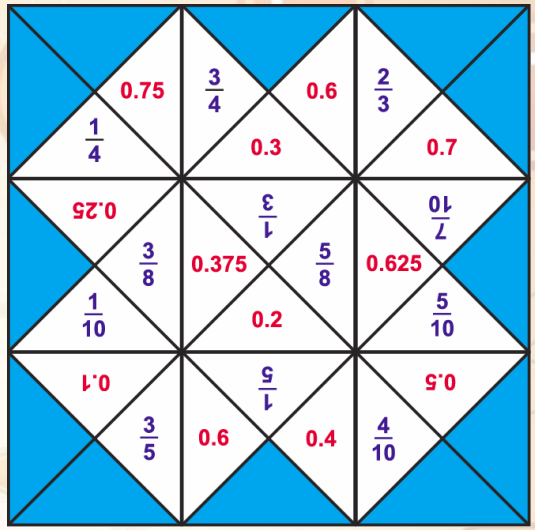


Fraction and Decimal Equivalence

Let's play a game then ...







The puzzles only fit together one way.
Good Luck!