Fraction and Decimal Equivalence

Let's recap on some things we know about fractions first ... What have all these got in common?

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

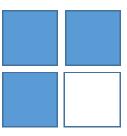
If the Numerator and the Denominator are the same, then the fraction equals 1

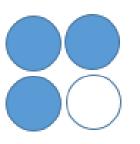
RECAP

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

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

Spot the odd one out ...









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

$$\frac{4}{8}$$

$$\frac{2}{3}$$

How do you know? Explain it!

In Year 5 you will learn that.....

So, how do we work out a decimal?

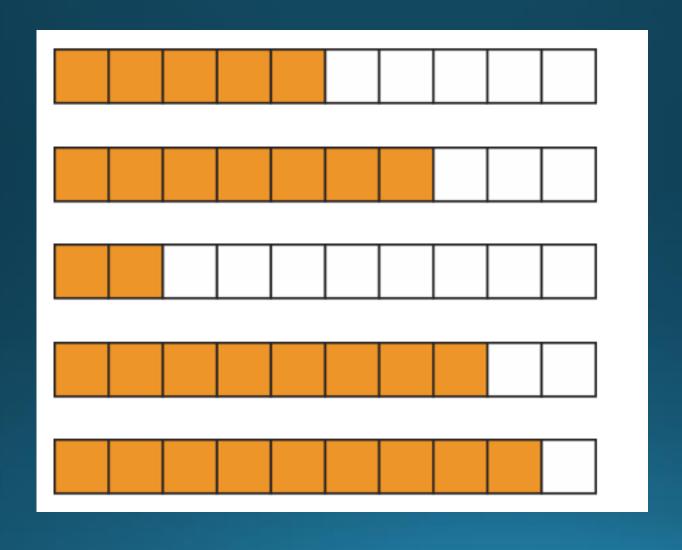
It's simple! We get any fraction and divide the Numerator by the Denominator

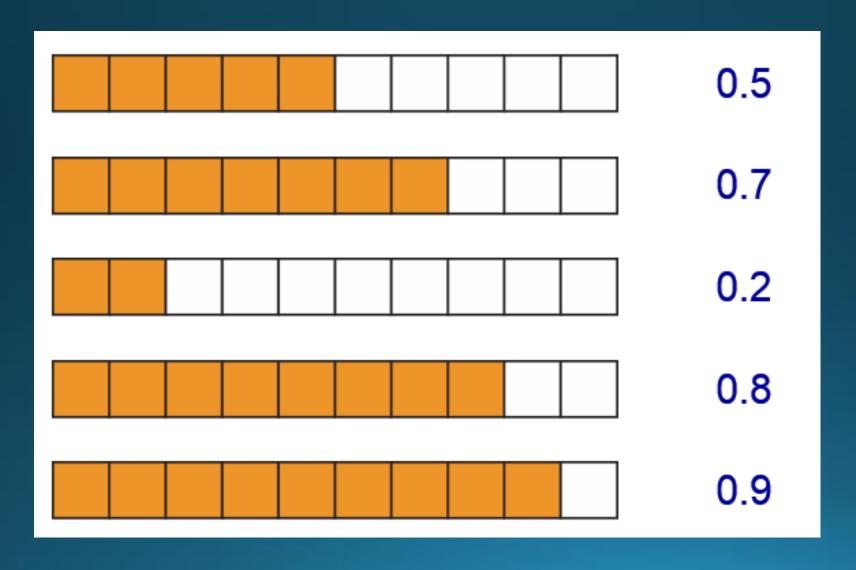
Let's work out an example ...

- ↑ Divide the Numerator, 1
- by the Denominator, 2

so,
$$1 \div 2 = 0.5$$

Can you work out these decimals?





Can you write these fractions as decimals in your book?

$$\frac{1}{10} =$$

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

$$\frac{1}{4} = 0.25$$

$$\frac{1}{5} = 0.2$$

$$\frac{1}{10}$$
 = 0.1

$$\frac{1}{2} = 0.5$$

Find the common factors of the following pairs of

numbers: (Make a list)

https://www.youtube.com/watch?v=U-1KjlJAA6M

Let's check the common factors:

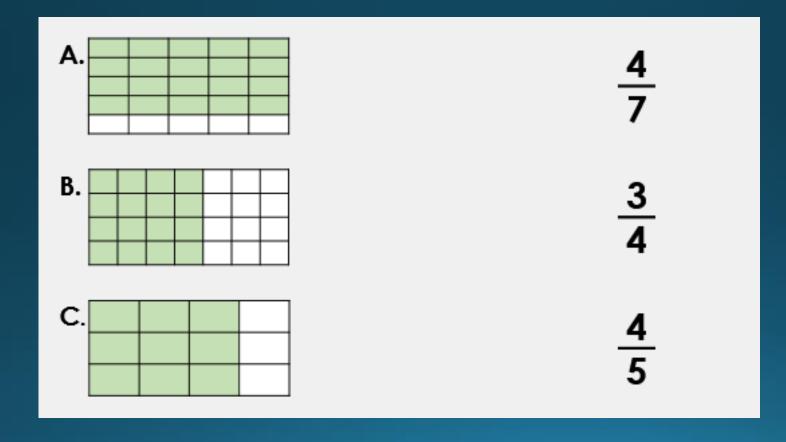
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1, 2, 3, 6
24 1, 2, 3, 4, 6, 8, 12, 24
     1, 2, 4, 8
36 1, 2, 3, 4, 6, 9, 12, 18, 36
     1, 2, 3, 4, 6, 12
18 1, 2, 3, 6, 9, 18
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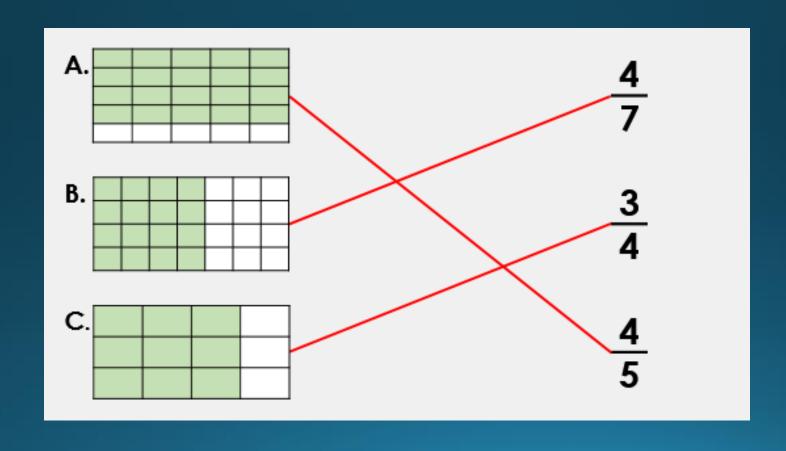
Simplify these fractions using the highest common factor. Copy them in your book.

$$\frac{27}{36} \stackrel{(\div 9)}{(\div 9)} = \frac{3}{4}$$

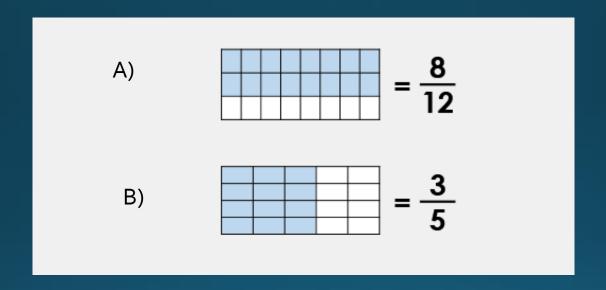
$$\frac{16}{40} \stackrel{(\div 8)}{(\div 8)} = \frac{2}{5}$$

Match each fraction to its simplified version. Copy only the fraction and letter (e.g. 1/2=D)

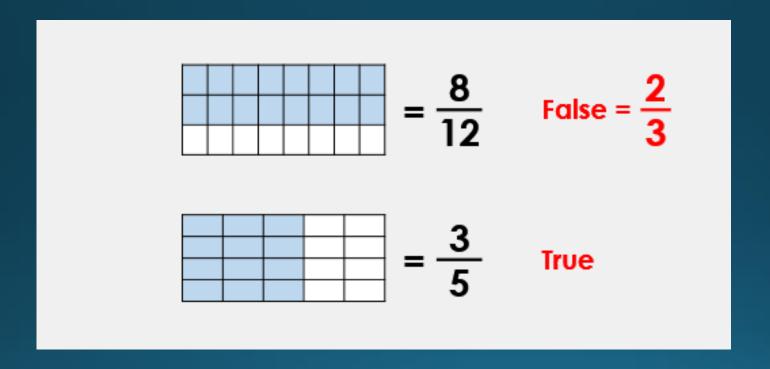




True or false? The following fractions are reduced to their simplest form. Write your answer in the book.



e.g. C is True
D is False,
because it is 4/6



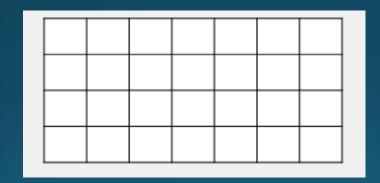
Main Activity in books. Use the highest common factors below to help complete these simplified fractions.

Challenge 1: Copy it in your book.

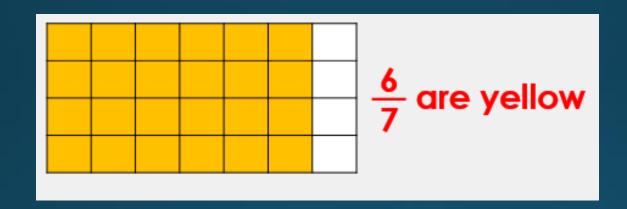
There are 28 red and yellow tulips in a basket. 24 of them are yellow.

Represent this as a simplified fraction.

Use the grid below to help you work out the fraction in its simplest form.



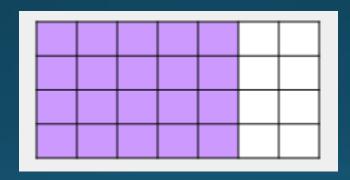
What fraction of the tulips are red? Give the answer in its simplest form.



 $\frac{1}{7}$ are red

Challenge 2: Copy it in your book.

I think, this fraction can be simplified to $\frac{10}{28}$ because 2 is the highest common factor.



Am I correct? Prove it.

You are incorrect because 4 is the highest common factor.

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\begin{array}{c} 20 \\ 28 \\ \text{is simplified to } \frac{5}{7}. \end{array}
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