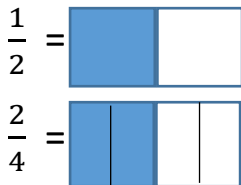


Monday 27th April

L.K: To recognise equivalent fractions using doubling and halving

It is very important that we can accurately recognise equivalent fractions. Equivalent fractions are fractions that are worth the same amount, but they have different numbers making them up. For example, $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent fractions. We can show this using diagrams:



As you can see, the two boxes are the same size, but one has been split into two sections and the other has been split into four sections. The top box has one shaded box and the bottom has two shaded boxes. But, as one of the top boxes is *equivalent* to two of the bottom boxes, we can say that $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent fractions!

Remember!

The top number in a fraction is called the numerator.

The bottom number in a fraction is called the denominator.

Whatever we do to the numerator we MUST do to the denominator.

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Show equivalent fractions using either doubling or halving:

1) $\frac{2}{4} =$

2) $\frac{2}{3} =$

3) $\frac{4}{6} =$

4) $\frac{3}{9} =$

5) $\frac{4}{10} =$

6) $\frac{7}{11} =$

7) $\frac{3}{9} =$

8) $\frac{14}{28} =$

9) $\frac{17}{40} =$

Reasoning and Problem Solving

One Star

- 1) I have a pizza shown below. It has been split into quarters.
 - A) How many slices do I have left out of my pizza?
 - B) My pizza had been split into 4 equal slices. How many slices do I have if I were to split it into 8 equal slices?



- 2) I have $\frac{1}{4}$ of a packet of crisps. My friend has an equivalent amount of crisps, but his denominator is 8 instead of 4. What is his numerator?

Two Star

- 1) Is $\frac{2}{8}$ equivalent to $\frac{1}{4}$? Use diagrams to help explain your reasoning:
- 2) Answer the question below using FULL SENTENCES. Make sure that you have accurately answered the question!

How many equivalent fractions can you see in this picture?



Three Star

- 1) Is $\frac{2}{3}$ equivalent to $\frac{5}{6}$? Use diagrams to help explain your reasoning:
- 2) Can you show your answer using a diagram?

Eva says,



I know that $\frac{3}{4}$ is equivalent to $\frac{3}{8}$ because the numerators are the same.

Is Eva correct?
Explain why.

- 2) For the following question, get some paper and try it out!

Ron has two strips of the same sized paper.

He folds the strips into different sized fractions.

He shades in three equal parts on one strip and six equal parts on the other strip.

The shaded areas are equal.

What fractions could he have folded his strips into?