Inkleaf LEARNING

Name _____

Date _____

Year 4 Maths

Equivalent fractions.

I can find equivalent fractions.

1 Practise

Fill in the missing numbers.

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

Shade $\frac{3}{4}$ of the first bar. Shade the same amount of the second bar. What fraction is that?





$= \frac{\square}{8}$

2 Use It

Work out each problem. Use the squares to draw or work it out.

Amir eats $\frac{2}{8}$ of a pizza. Jo eats $\frac{1}{4}$ of a pizza the same size. Who eats more?

A recipe uses $\frac{3}{6}$ of a bag of flour. What is that in halves?

3 Spot The Mistake

Kai says $\frac{2}{3} = \frac{3}{4}$ because he added 1 to the top and the bottom. Is he right? Explain.

Challenge

Find pairs of different fractions that are both equal to $\frac{1}{2}$ and whose numerators add up to 10. Write each pair in the boxes, with the arrow joining them. Hint: try 1 and 9 on top. Have you found them all? How do you know?

$\frac{\square}{\square} \leftrightarrow \frac{\square}{\square}$ $\quad \frac{\square}{\square} \leftrightarrow \frac{\square}{\square}$

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$\frac{3}{4}$

← **numerator**
how many parts we have

← **denominator**
how many equal parts the whole is cut into

REMEMBER IT

Denominator, **D**own.

The **d**enominator is always **d**own at the bottom, like the floor the fraction stands on.

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Year 4 Maths

For grown-ups: how to help, and the answers.

How To Help

- Fold paper strips or cut a pizza to show that $\frac{1}{2}$, $\frac{2}{4}$ and $\frac{4}{8}$ are the same size.
- The rule is "whatever you do to the top, do to the bottom", and only multiply or divide.
- For the words, say "denominator, down" together: both start with d, and the denominator is the one down at the bottom.
- Ask them to explain why $\frac{2}{8}$ is the same as $\frac{1}{4}$. Explaining is where the learning sticks.

Practise

1. $\frac{2}{4}$ and $\frac{4}{8}$
2. 6
3. 9
4. 10
5. 4
6. 2
7. $\frac{6}{8}$

Use It

1. Neither: $\frac{2}{8}$ and $\frac{1}{4}$ are the same amount.
2. $\frac{1}{2}$

Spot The Mistake

1. No. To make an equivalent fraction you multiply (or divide) the numerator and the denominator by the same number: $\frac{2}{3} = \frac{4}{6}$.

Challenge

1. $\frac{1}{2}$ and $\frac{9}{18}$, $\frac{2}{4}$ and $\frac{8}{16}$, $\frac{3}{6}$ and $\frac{7}{14}$, $\frac{4}{8}$ and $\frac{6}{12}$: four pairs. ($\frac{5}{10}$ and $\frac{5}{10}$ are not different.)