

FRACTIONS

TEKS Worksheets

4th
GRADE

Comparing Unit Fractions

Name: _____

Look at the denominators for the Fractions below. Write "smaller pieces" by the denominator in each pair that breaks one whole into the smallest pieces. This is the key to comparing unit Fractions (Fractions with a numerator of 1).

1 $\frac{1}{5} > \frac{1}{15}$

2 $\frac{1}{12} < \frac{1}{4}$

3 $\frac{1}{8} > \frac{1}{9}$

4 $\frac{1}{3} < \frac{1}{2}$

5 $\frac{1}{30} < \frac{1}{20}$

6 $\frac{1}{9} > \frac{1}{10}$

- 7 Ally has finished $\frac{1}{4}$ of her homework. Ty has completed $\frac{1}{5}$ of his. Who has completed more?

Ty has completed more



- 8 A red ribbon is $\frac{1}{4}$ of a foot long. A yellow ribbon is $\frac{1}{8}$ of a foot long. Which ribbon is shorter?

The yellow ribbon is shorter.

- 9 Sam has $\frac{1}{4}$ of a pizza and Jacob has $\frac{1}{5}$ of a pizza. Who has more pizza?

- 11 Lilly has read $\frac{1}{7}$ of her book. Madison has read $\frac{1}{10}$ of her book. Who has read more?

- 12 El

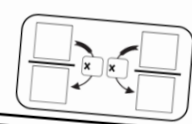
Equivalent or Not?

Proving equivalence in a variety of ways

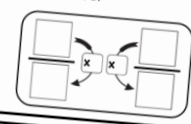
Name: _____

There are a variety of ways to prove if 2 Fractions are equivalent. Use the method shown for each Fraction pair and determine if the Fractions are equal (=) or not equal (≠).

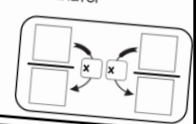
1. $\frac{2}{4} \bigcirc \frac{3}{6}$
the numerator $\times$ _____ = the denominator



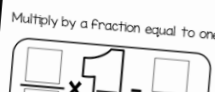
2. $\frac{2}{12} \bigcirc \frac{3}{9}$
the numerator $\times$ _____ = the denominator



3. $\frac{5}{25} \bigcirc \frac{3}{15}$
the numerator $\times$ _____ = the denominator



4. $\frac{3}{8} \bigcirc \frac{9}{16}$



5. $\frac{7}{3} \bigcirc \frac{21}{9}$



6. $\frac{5}{8} \bigcirc \frac{15}{32}$



Print & Go Practice

Prickly Fraction Number Lines

Name: _____

Name the fraction represented by each point on the number lines below.

Number lines and points:

- A: $\frac{2}{3}$
- B: $\frac{3}{4}$
- C: $\frac{4}{10}$
- D: $\frac{10}{15}$
- E: $\frac{1}{14}$
- F: $\frac{1}{15}$
- G: $\frac{1}{7}$
- H: $\frac{1}{8}$
- I: $\frac{1}{24}$
- J: $\frac{1}{24}$

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Generating Equivalent Fractions

With models

Name: _____

Think about how many pieces each part in the models below should be cut into horizontal lines on the model to help you find an equivalent fraction.

1 $\frac{1}{2} = \frac{\quad}{12}$

2 $\frac{1}{3} = \frac{\quad}{12}$

3 $\frac{1}{4} = \frac{\quad}{12}$

4 $\frac{5}{8} = \frac{\quad}{16}$

5 $\frac{1}{8} = \frac{\quad}{16}$

6 $\frac{1}{4} = \frac{\quad}{16}$

7 $\frac{3}{6} = \frac{\quad}{12}$

8 $\frac{4}{5} = \frac{\quad}{15}$

9 $\frac{4}{7} = \frac{\quad}{21}$

10 $\frac{5}{6} = \frac{\quad}{24}$

11 $\frac{2}{3} = \frac{\quad}{18}$

12 $\frac{8}{10} = \frac{\quad}{20}$

Example: A rectangle divided into 8 horizontal strips, with 4 strips shaded gray.

Fun & Engaging Activities



Equivalent Fractions

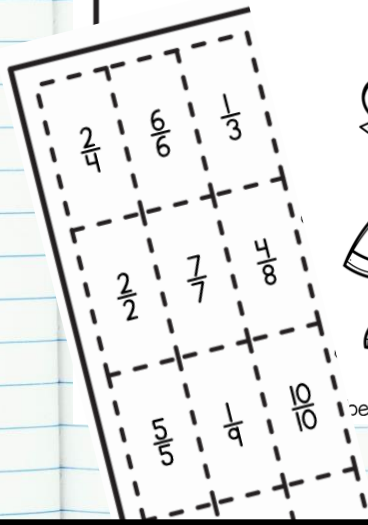
Fractions equivalent to 1

Name: _____

14

Fractions NOT
Equivalent to 1

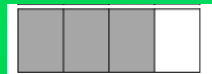
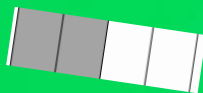
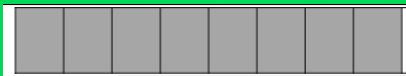
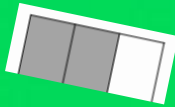
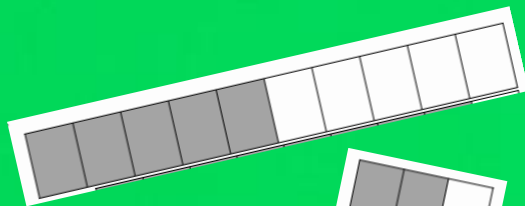
Fractions
Equivalent to 1



Below and glue each one into the correct space above.



Perfect for Math Stations, Seatwork or Tutoring



Cut, Fold & Compare
Comparing Fractions to $\frac{1}{2}$

Name: _____

10

Cut out each fraction bar in the bottom section of this page. Fold each bar in half to help you compare the shaded part to $\frac{1}{2}$. Record your answers in the top 2 boxes.

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

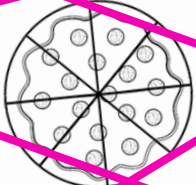
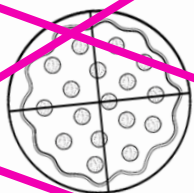
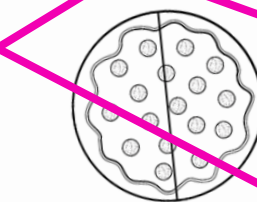
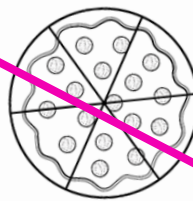
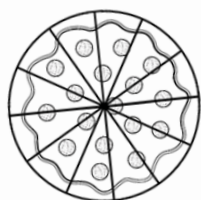
Compare each fraction to one-half. Use the $<$, $>$, or $=$ symbol to make a true statement.

$\frac{1}{6} \bigcirc \frac{1}{2}$	$\frac{2}{6} \bigcirc \frac{1}{2}$	$\frac{3}{6} \bigcirc \frac{1}{2}$	$\frac{4}{6} \bigcirc \frac{1}{2}$	$\frac{5}{6} \bigcirc \frac{1}{2}$	
$\frac{1}{7} \bigcirc \frac{1}{2}$	$\frac{2}{7} \bigcirc \frac{1}{2}$	$\frac{3}{7} \bigcirc \frac{1}{2}$	$\frac{4}{7} \bigcirc \frac{1}{2}$	$\frac{5}{7} \bigcirc \frac{1}{2}$	$\frac{6}{7} \bigcirc \frac{1}{2}$

Easy to Use Printable Pages

Equivalent Fraction Match Name: Brylee 15

Match the fractions on the left with an equivalent fraction on the right. Then shade an amount equal to $\frac{1}{4}$ of each pizza below. If a pizza is sliced so that it cannot make $\frac{1}{4}$, do not shade anything.

1. $\frac{16}{16}$			$\frac{6}{16}$
2. $\frac{3}{8}$			$\frac{8}{10}$
3. $\frac{2}{4}$			$\frac{4}{6}$
4. $\frac{7}{12}$			$\frac{4}{4}$
5. $\frac{4}{5}$			$\frac{1}{8}$
6. $\frac{4}{16}$			$\frac{1}{2}$
7. $\frac{2}{16}$			$\frac{3}{4}$
8. $\frac{12}{10}$			$\frac{14}{24}$
9. $\frac{2}{3}$			$\frac{1}{4}$
10. $\frac{5}{15}$			$\frac{6}{5}$
11. $\frac{75}{100}$			$\frac{1}{3}$



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Teacher Key is Included!

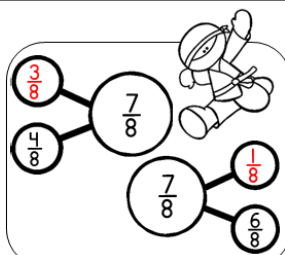
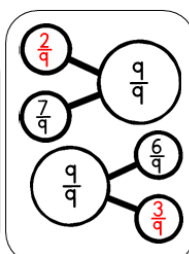
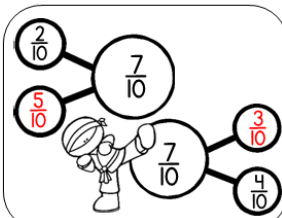
Break it Up

Decomposing Fractions

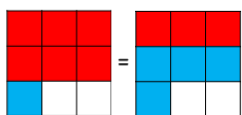
Name: **KEY**

26

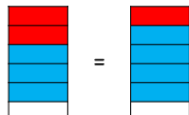
Fill in the missing fractions.



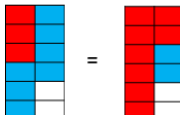
Shade the models to match the equations.



$$\frac{6}{9} + \frac{1}{9} = \frac{3}{9} + \frac{4}{9}$$

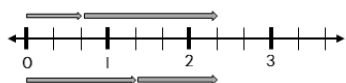


$$\frac{2}{6} + \frac{3}{6} = \frac{1}{6} + \frac{4}{6}$$



$$\frac{3}{12} + \frac{7}{12} = \frac{8}{12} + \frac{2}{12}$$

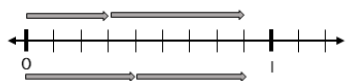
Complete the equations to represent the number lines.



$$\frac{2}{3} + \frac{5}{3} = \frac{4}{3} + \frac{3}{3}$$

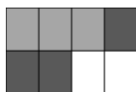


$$\frac{3}{4} + \frac{5}{4} = \frac{4}{4} + \frac{4}{4}$$



$$\frac{3}{9} + \frac{5}{9} = \frac{4}{9} + \frac{4}{9}$$

Write an equation to represent the equality of the two models.



$$\frac{3}{8} + \frac{3}{8} = \frac{4}{8} + \frac{2}{8}$$

About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.



MARVEL Math