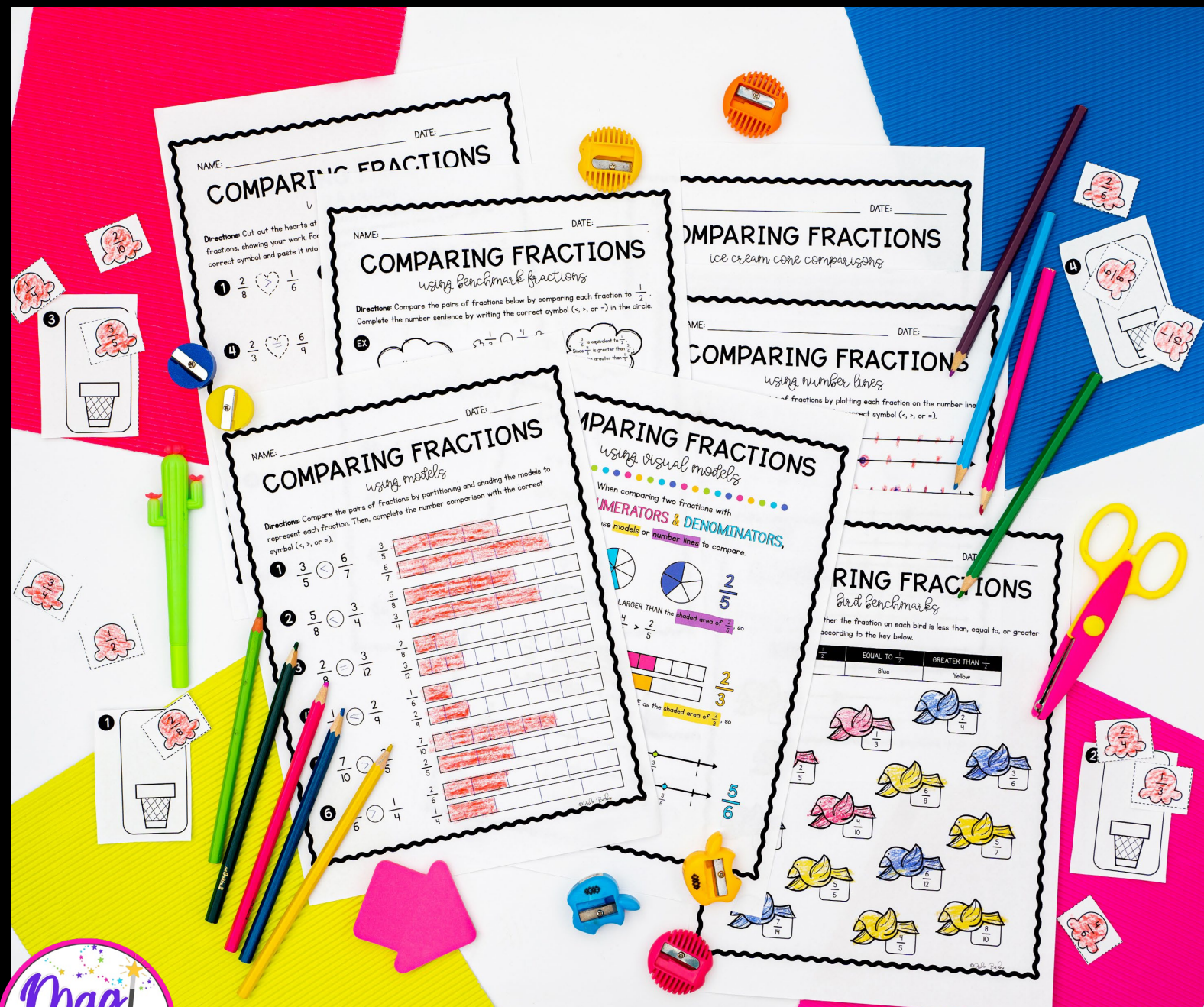
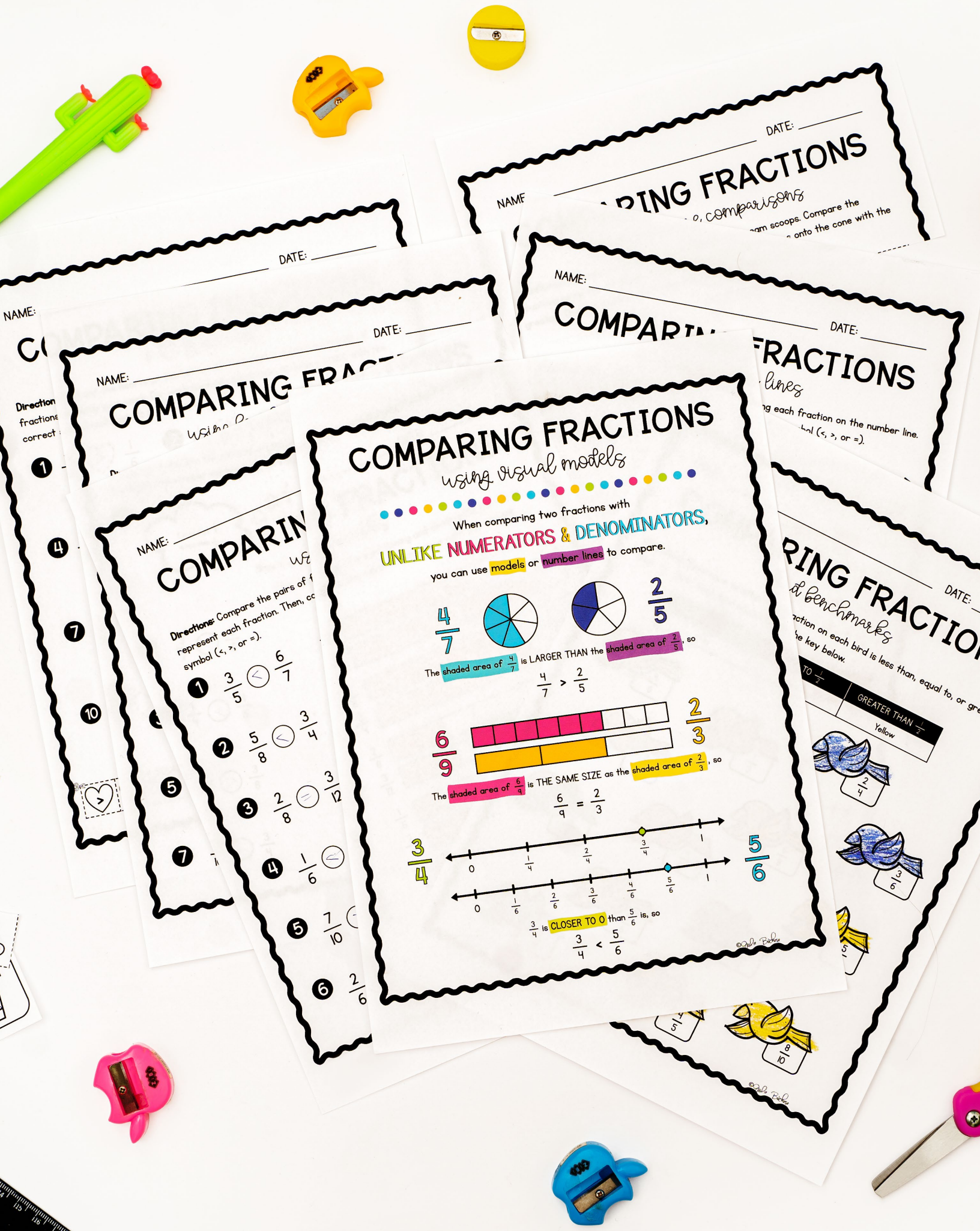


COMPARING FRACTIONS

4th Grade



Printable & Google Slides



NAME: _____ DATE: _____

COMPARING FRACTIONS

Directions: Compare the pairs of fractions. Use the symbols <, >, or =.

NAME: _____ DATE: _____

COMPARING FRACTIONS

Directions: Compare the pairs of fractions. Use the symbols <, >, or =.

NAME: _____ DATE: _____

COMPARING FRACTIONS

Directions: Compare the pairs of fractions. Use the symbols <, >, or =.

NAME: _____ DATE: _____

COMPARING FRACTIONS

Directions: Compare the pairs of fractions. Use the symbols <, >, or =.

NAME: _____

COMPARING FRACTIONS

Directions: Compare the pairs of fractions. Use the symbols <, >, or =.

- $\frac{3}{5} < \frac{6}{7}$
- $\frac{5}{8} < \frac{3}{4}$
- $\frac{2}{8} = \frac{3}{12}$
- $\frac{1}{6} < \frac{3}{10}$
- $\frac{7}{10} < \frac{3}{6}$
- $\frac{2}{6}$

NAME: _____

COMPARING FRACTIONS

using visual models

When comparing two fractions with UNLIKE NUMERATORS & DENOMINATORS, you can use models or number lines to compare.

Example 1: $\frac{4}{7}$ and $\frac{2}{5}$

The shaded area of $\frac{4}{7}$ is LARGER THAN the shaded area of $\frac{2}{5}$, so $\frac{4}{7} > \frac{2}{5}$

Example 2: $\frac{6}{9}$ and $\frac{2}{3}$

The shaded area of $\frac{6}{9}$ is THE SAME SIZE as the shaded area of $\frac{2}{3}$, so $\frac{6}{9} = \frac{2}{3}$

Example 3: $\frac{3}{4}$ and $\frac{5}{6}$

$\frac{3}{4}$ is CLOSER TO 0 than $\frac{5}{6}$ is, so $\frac{3}{4} < \frac{5}{6}$

NAME: _____

COMPARING FRACTIONS

Directions: Compare the pairs of fractions. Use the symbols <, >, or =.

TO $\frac{1}{2}$ GREATER THAN $\frac{1}{2}$ Yellow

$\frac{2}{4}$ $\frac{3}{4}$ $\frac{5}{6}$

COMPARING FRACTIONS

Directions: Cut out the hearts at the bottom, showing your work. For each pair of fractions, write the correct symbol and paste it into the heart.

$\frac{2}{8}$ $\frac{1}{6}$

$\frac{2}{3}$ $\frac{6}{9}$

NAME: _____ DATE: _____

COMPARING FRACTIONS

using benchmark fractions

Directions: Compare the pairs of fractions below by comparing each fraction to $\frac{1}{2}$. Complete the number sentence by writing the correct symbol ($<$, $>$, or $=$) in the circle.

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

$\frac{3}{6}$ is equivalent to $\frac{1}{2}$.
Since $\frac{4}{6}$ is greater than $\frac{3}{6}$,
it is greater than $\frac{1}{2}$.

NAME: _____ DATE: _____

COMPARING FRACTIONS

ice cream cone comparisons

NAME: _____ DATE: _____

COMPARING FRACTIONS

using number lines

Directions: Compare the fractions by plotting each fraction on the number line and writing the correct symbol ($<$, $>$, or $=$).

NAME: _____ DATE: _____

COMPARING FRACTIONS

using models

Directions: Compare the pairs of fractions by partitioning and shading the models to represent each fraction. Then, complete the number comparison with the correct symbol ($<$, $>$, or $=$).

- $\frac{3}{5}$ $\frac{6}{7}$
- $\frac{5}{8}$ $\frac{3}{4}$
- $\frac{2}{9}$ $\frac{3}{12}$
- $\frac{1}{6}$ $\frac{2}{9}$
- $\frac{7}{10}$ $\frac{2}{5}$
- $\frac{2}{6}$ $\frac{1}{4}$

NAME: _____ DATE: _____

COMPARING FRACTIONS

using visual models

When comparing two fractions with different numerators and denominators, use models or number lines to compare.

LARGER THAN the shaded area of $\frac{2}{5}$, so $\frac{4}{5} > \frac{2}{5}$

As the shaded area of $\frac{2}{3}$, so $\frac{4}{6} < \frac{2}{3}$

NAME: _____ DATE: _____

COMPARING FRACTIONS

bird benchmarks

Directions: Compare the fraction on each bird is less than, equal to, or greater than the fraction on the key below.

LESS THAN $\frac{1}{2}$	EQUAL TO $\frac{1}{2}$	GREATER THAN $\frac{1}{2}$
Blue	Yellow	Yellow

$\frac{1}{3}$ $\frac{2}{4}$ $\frac{2}{5}$ $\frac{6}{8}$ $\frac{4}{10}$ $\frac{5}{6}$ $\frac{6}{12}$ $\frac{7}{14}$ $\frac{4}{5}$

NAME: _____

DATE: _____

NAME: _____

DATE: _____

COMPARING FRACTIONS

i ♥ fractions

Directions: Cut out the hearts at the bottom of the page. Compare each pair of fractions, showing your work. For each number comparison, choose a heart with the correct symbol and paste it into the space.

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

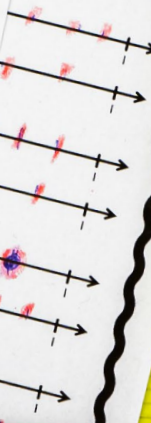
G FRACTIONS

DATE: _____

E: _____

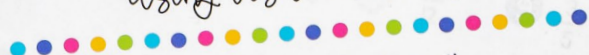
IONS

equal to, or greater

on the number line.
>, or =).

COMPARING FRACTIONS

using visual models



When comparing two fractions with

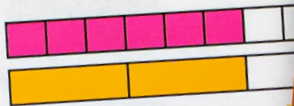
UNLIKE NUMERATORS & DENOMINATORS

you can use **models** or **number lines** to compare.

 $\frac{4}{7}$ 

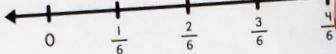
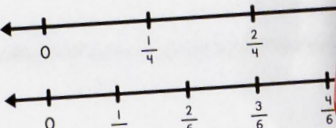
The shaded area of $\frac{4}{7}$ is **LARGER THAN** the shaded area of $\frac{2}{5}$.

$$\frac{4}{7} > \frac{2}{5}$$

 $\frac{6}{9}$ 

The shaded area of $\frac{6}{9}$ is **THE SAME SIZE** as the shaded area of $\frac{2}{3}$.

$$\frac{6}{9} = \frac{2}{3}$$

 $\frac{3}{4}$ 

$\frac{3}{4}$ is **CLOSER TO 0** than $\frac{5}{6}$ is, so

$$\frac{3}{4} < \frac{5}{6}$$

COMPARING FRACTIONS

creating common numerators

Directions: For the given fractions below, use the least common multiple to create and compare fractions with a common numerator. Then, complete the original number comparison with the correct symbol (<, >, or =).

1

NUMBER COMPARISON

$$\frac{1}{3} \quad \bigcirc \quad \frac{2}{5}$$

FIND THE LEAST COMMON MULTIPLE

1: _____
2: _____

COMPARE FRACTIONS WITH COMMON NUMERATOR

1: _____
2: _____

2

NUMBER COMPARISON

$$\frac{4}{9} \quad \bigcirc \quad \frac{2}{3}$$

FIND THE LEAST COMMON MULTIPLE

4: _____
2: _____

COMPARE FRACTIONS WITH COMMON NUMERATOR

4: _____
2: _____

COMPARING FRACTIONS

using visual models



When comparing two fractions with

UNLIKE NUMERATORS & DENOMINATORS,

you can use **models** or **number lines** to compare.



The shaded area of $\frac{4}{7}$ is LARGER THAN the shaded area of $\frac{2}{5}$, so

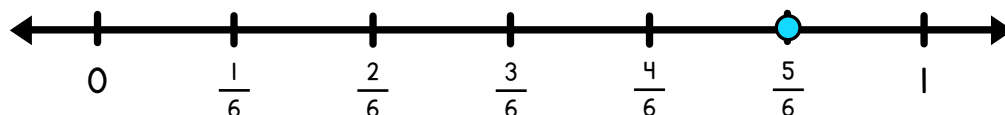
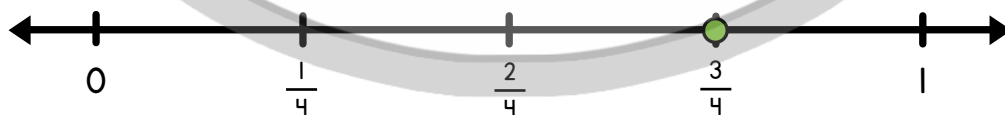
$$\frac{4}{7} > \frac{2}{5}$$



The shaded area of $\frac{6}{9}$ is THE SAME SIZE as the shaded area of $\frac{2}{3}$, so

$$\frac{6}{9} = \frac{2}{3}$$

$$\frac{3}{4}$$



$$\frac{5}{6}$$

$\frac{3}{4}$ is CLOSER TO 0 than $\frac{5}{6}$ is, so

$$\frac{3}{4} < \frac{5}{6}$$

COMPARING FRACTIONS

using common denominators



When comparing two fractions with

UNLIKE NUMERATORS & DENOMINATORS,

you can create a **common denominator** using multiplication.

$$\frac{1}{3} \quad ? \quad \frac{2}{5}$$

Find the least
common multiple of
the denominators

$$3 : 3, 6, 9, 12, \textcolor{blue}{15}, 18$$

$$5 : 5, 10, \textcolor{blue}{15}, 20, 25$$

Multiply so that each
fraction has the LCM as
the denominator

$$\frac{1}{3} \begin{array}{l} \times 5 \\ \times 5 \end{array} = \frac{5}{15} \quad \frac{2}{5} \begin{array}{l} \times 3 \\ \times 3 \end{array} = \frac{6}{15}$$

Compare the fractions
with common denominators

$$\frac{5}{15} < \frac{6}{15}$$

$$\frac{1}{3} < \frac{2}{5}$$

NAME: _____

DATE: _____

COMPARING FRACTIONS

using models

Directions: Compare the pairs of fractions by partitioning and shading the models to represent each fraction. Then, complete the number comparison with the correct symbol (<, >, or =).

1	$\frac{3}{5}$	○	$\frac{6}{7}$	$\frac{3}{5}$	
				$\frac{6}{7}$	
2	$\frac{5}{8}$	○	$\frac{3}{4}$	$\frac{5}{8}$	
				$\frac{3}{4}$	
3	$\frac{2}{8}$	○	$\frac{3}{12}$	$\frac{2}{8}$	
				$\frac{3}{12}$	
4	$\frac{1}{6}$	○	$\frac{2}{9}$	$\frac{1}{6}$	
				$\frac{2}{9}$	
5	$\frac{7}{10}$	○	$\frac{2}{5}$	$\frac{7}{10}$	
				$\frac{2}{5}$	
6	$\frac{2}{6}$	○	$\frac{1}{4}$	$\frac{2}{6}$	
				$\frac{1}{4}$	

NAME: _____

DATE: _____

COMPARING FRACTIONS

using models

Directions: Compare the pairs of fractions by partitioning and shading the models to represent each fraction. Then, complete the number comparison with the correct symbol (<, >, or =).

1 $\frac{4}{5}$ ○ $\frac{6}{8}$ $\frac{4}{5}$ ○ $\frac{6}{8}$

2 $\frac{2}{8}$ ○ $\frac{1}{4}$ $\frac{2}{8}$ ○ $\frac{1}{4}$

3 $\frac{5}{6}$ ○ $\frac{9}{10}$ $\frac{5}{6}$ ○ $\frac{9}{10}$

4 $\frac{2}{4}$ ○ $\frac{6}{7}$ $\frac{2}{4}$ ○ $\frac{6}{7}$

5 $\frac{1}{3}$ ○ $\frac{2}{5}$ $\frac{1}{3}$ ○ $\frac{2}{5}$

6 $\frac{4}{5}$ ○ $\frac{8}{10}$ $\frac{4}{5}$ ○ $\frac{8}{10}$

NAME: _____

DATE: _____

COMPARING FRACTIONS

creating common numerators

Directions: For the given fractions below, use the least common multiple to create and compare fractions with a common numerator. Then, complete the original number comparison with the correct symbol (<, >, or =).

1

NUMBER COMPARISON

$$\frac{1}{3} \bigcirc \frac{2}{5}$$

FIND THE LEAST COMMON MULTIPLE

1:

2:

COMPARE FRACTIONS WITH
COMMON NUMERATOR

$$\frac{\square}{\square} \bigcirc \frac{\square}{\square}$$

2

NUMBER COMPARISON

$$\frac{4}{9} \bigcirc \frac{2}{3}$$

FIND THE LEAST COMMON MULTIPLE

4:

2:

COMPARE FRACTIONS WITH
COMMON NUMERATOR

$$\frac{\square}{\square} \bigcirc \frac{\square}{\square}$$

3

NUMBER COMPARISON

$$\frac{6}{7} \bigcirc \frac{5}{6}$$

FIND THE LEAST COMMON MULTIPLE

6:

5:

COMPARE FRACTIONS WITH
COMMON NUMERATOR

$$\frac{\square}{\square} \bigcirc \frac{\square}{\square}$$

4

NUMBER COMPARISON

$$\frac{3}{8} \bigcirc \frac{6}{16}$$

FIND THE LEAST COMMON MULTIPLE

3:

6:

COMPARE FRACTIONS WITH
COMMON NUMERATOR

$$\frac{\square}{\square} \bigcirc \frac{\square}{\square}$$

5

NUMBER COMPARISON

$$\frac{8}{10} \bigcirc \frac{5}{9}$$

FIND THE LEAST COMMON MULTIPLE

8:

5:

COMPARE FRACTIONS WITH
COMMON NUMERATOR

$$\frac{\square}{\square} \bigcirc \frac{\square}{\square}$$

NAME: _____

DATE: _____

COMPARING FRACTIONS

using benchmark fractions

Directions: Compare the pairs of fractions below by comparing each fraction to $\frac{1}{2}$. Complete the number sentence by writing the correct symbol ($<$, $>$, or $=$) in the circle.

EX

I know that $\frac{1}{3}$
is less than $\frac{1}{2}$.

$$\frac{1}{3} \bigcirc \frac{4}{6}$$

$\frac{3}{6}$ is equivalent to $\frac{1}{2}$.
Since $\frac{4}{6}$ is greater than $\frac{3}{6}$,
 $\frac{4}{6}$ is also greater than $\frac{1}{2}$.

Since I know $\frac{1}{3} < \frac{1}{2}$ and $\frac{4}{6} > \frac{1}{2}$,

I know that $\frac{1}{3} < \frac{4}{6}$

1

$$\frac{3}{7} \bigcirc \frac{5}{6}$$

2

$$\frac{2}{3} \bigcirc \frac{3}{9}$$

3

$$\frac{1}{4} \bigcirc \frac{4}{5}$$

4

$$\frac{2}{8} \bigcirc \frac{7}{10}$$

5

$$\frac{4}{6} \bigcirc \frac{3}{8}$$

6

$$\frac{5}{8} \bigcirc \frac{1}{6}$$

7

$$\frac{4}{10} \bigcirc \frac{3}{4}$$

8

$$\frac{6}{8} \bigcirc \frac{5}{12}$$

NAME: _____

DATE: _____

COMPARING FRACTIONS

using benchmark fractions

Directions: Compare the fractions below by comparing each fraction to $\frac{1}{2}$. Write the fractions in order from least to greatest.

1 $\frac{2}{4}$, $\frac{1}{3}$, $\frac{5}{6}$ $\frac{\square}{\square}$, $\frac{\square}{\square}$, $\frac{\square}{\square}$

2 $\frac{7}{10}$, $\frac{4}{8}$, $\frac{2}{5}$ $\frac{\square}{\square}$, $\frac{\square}{\square}$, $\frac{\square}{\square}$

3 $\frac{4}{6}$, $\frac{3}{8}$, $\frac{6}{12}$ $\frac{\square}{\square}$, $\frac{\square}{\square}$, $\frac{\square}{\square}$

4 $\frac{3}{9}$, $\frac{5}{10}$, $\frac{2}{3}$ $\frac{\square}{\square}$, $\frac{\square}{\square}$, $\frac{\square}{\square}$

5 $\frac{4}{10}$, $\frac{7}{8}$, $\frac{3}{6}$ $\frac{\square}{\square}$, $\frac{\square}{\square}$, $\frac{\square}{\square}$

6 $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{8}$ $\frac{\square}{\square}$, $\frac{\square}{\square}$, $\frac{\square}{\square}$

NAME: _____

DATE: _____

COMPARING FRACTIONS

practice

Directions: Compare the pairs of fractions using the strategy of your choosing. Show your work and complete the number sentence comparing the two fractions by filling in the correct symbol (<, >, or =).

1 $\frac{2}{4}$ ○ $\frac{3}{6}$

2 $\frac{3}{8}$ ○ $\frac{2}{10}$

3 $\frac{3}{9}$ ○ $\frac{4}{12}$

4 $\frac{1}{8}$ ○ $\frac{2}{6}$

5 $\frac{4}{5}$ ○ $\frac{6}{8}$

6 $\frac{2}{3}$ ○ $\frac{7}{9}$

7 $\frac{9}{10}$ ○ $\frac{4}{6}$

8 $\frac{2}{7}$ ○ $\frac{3}{9}$

NAME: _____

DATE: _____

COMPARING FRACTIONS

fraction wardrobe

Directions: Mila is getting dressed. She has two options each for a top, bottoms, outerwear, and shoes. She wants to choose each piece of clothing with the greatest fraction. Use the boxes to show your work comparing the fractions. Circle the clothes Mila picks. Then, on the next page, draw the clothing items onto Mila.

1

$$\frac{3}{5}$$



$$\frac{4}{6}$$

2

$$\frac{1}{4}$$



$$\frac{2}{9}$$

3

$$\frac{4}{5}$$



$$\frac{6}{10}$$

4

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



$$\frac{6}{8}$$

NAME: _____

DATE: _____

COMPARING FRACTIONS

i ♥ fractions

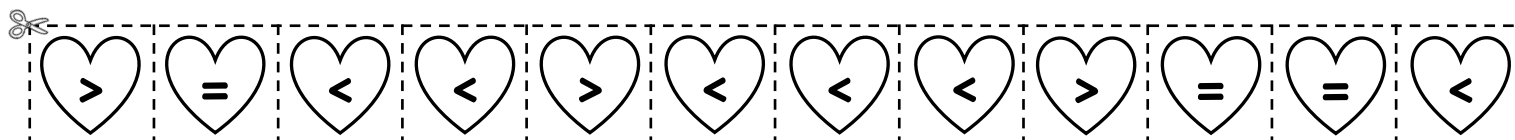
Directions: Cut out the hearts at the bottom of the page. Compare each pair of fractions, showing your work. For each number comparison, choose a heart with the correct symbol and paste it into the space.

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

4 $\frac{2}{3}$  $\frac{6}{9}$ 5 $\frac{3}{7}$  $\frac{2}{9}$ 6 $\frac{1}{4}$  $\frac{2}{5}$

7 $\frac{5}{10}$  $\frac{6}{8}$ 8 $\frac{4}{6}$  $\frac{8}{12}$ 9 $\frac{3}{5}$  $\frac{5}{8}$

10 $\frac{2}{12}$  $\frac{1}{10}$ 11 $\frac{4}{7}$  $\frac{5}{9}$ 12 $\frac{3}{15}$  $\frac{2}{10}$



NAME: _____

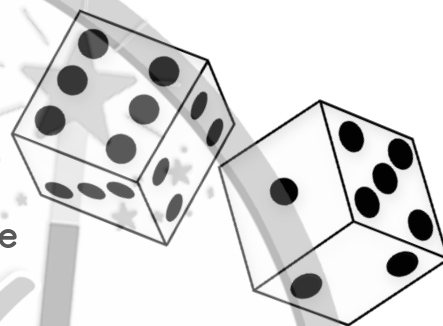
DATE: _____

COMPARING FRACTIONS

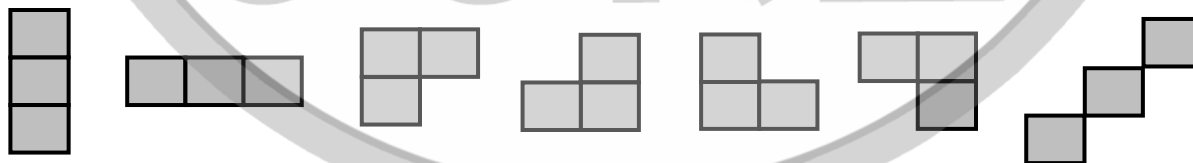
create a shape

Directions:

1. Roll one dice and find the corresponding fraction in the left column.
2. Roll again and find the corresponding fraction in the right column.
3. Determine the correct symbol to place in the circle to complete the number sentence comparing the two fractions.
4. Find that symbol in the table and shade.
5. Your goal is to create one of the shapes below by shading in the table.
6. Work independently or take turns with a partner to see who can create a shape first.



goal: Create one of these shapes



COMPARING FRACTIONS

duel

©Julie Buckner



$$\frac{1}{4}$$

$$\frac{2}{5}$$

$$\frac{3}{6}$$

$$\frac{5}{8}$$

$$\frac{2}{7}$$

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

$$\frac{3}{4}$$

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

$$\frac{1}{3}$$

$$\frac{2}{4}$$

$$\frac{5}{6}$$

$$\frac{3}{8}$$

$$\frac{7}{8}$$

$$\frac{7}{10}$$

$$\frac{1}{5}$$

$$\frac{2}{10}$$

$$\frac{4}{5}$$

$$\frac{1}{6}$$

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

$$\frac{5}{7}$$

NAME: _____

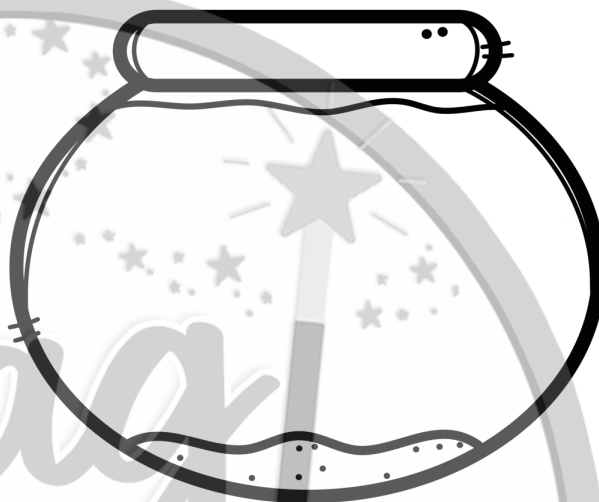
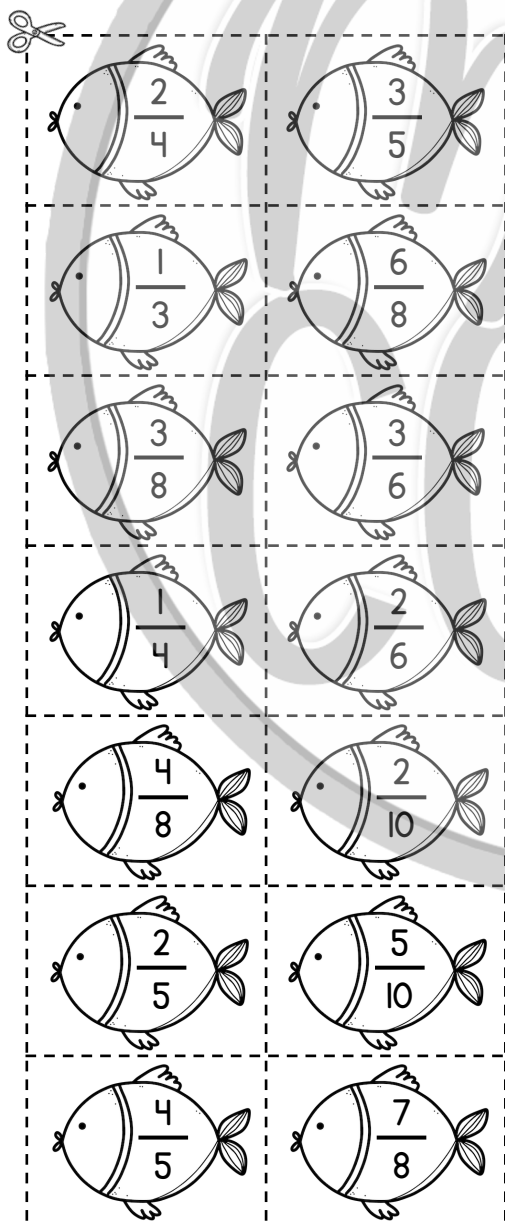
DATE: _____

COMPARING FRACTIONS

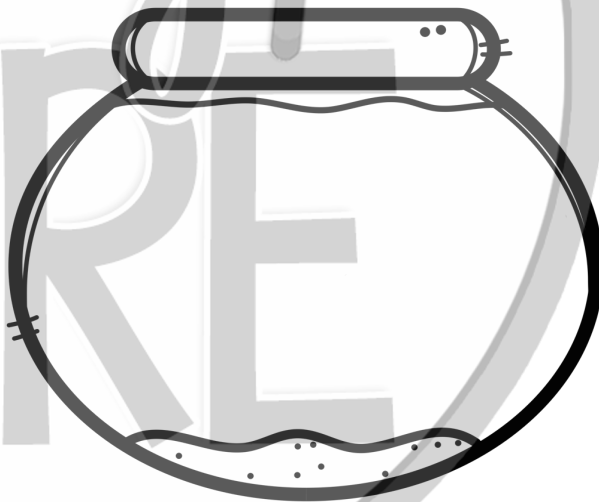
fishy fractions

Directions: Cut out the fish below.

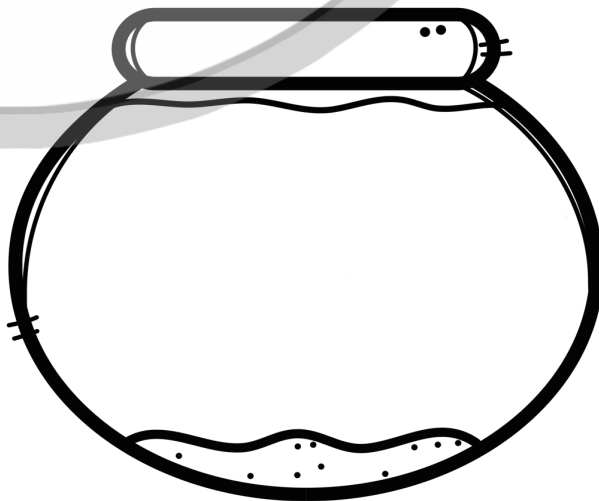
Determine whether the fraction on each fish is less than, equal to, or greater than $\frac{1}{2}$. Paste the fish into the correct fishbowl.



LESS THAN $\frac{1}{2}$

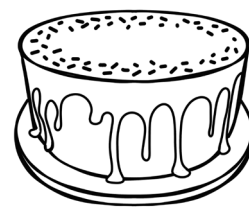


EQUAL TO $\frac{1}{2}$



GREATER THAN $\frac{1}{2}$

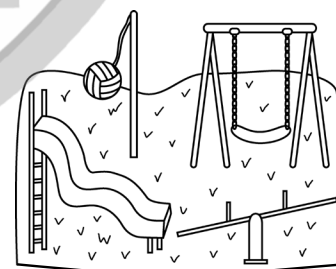
- 3 A recipe for chocolate cake calls for $\frac{1}{3}$ of a cup of cocoa powder and $\frac{2}{7}$ of a cup of oil. Which of the ingredients does the recipe need more of?



- 4 Laurel is cutting string to make a bracelet. She uses $\frac{5}{10}$ of a yard of blue string, $\frac{3}{8}$ of a yard of white string, and $\frac{7}{9}$ of a yard of pink string. Which color string does Laurel use the least of?



- 5 At the playground, Danny spent $\frac{3}{6}$ of an hour playing basketball, $\frac{1}{4}$ of an hour playing on the jungle gym, and $\frac{5}{8}$ of an hour playing tag. Put the activities in order from the least amount of time spent to the most amount of time spent.



Directions: Solve the following word problems by comparing fractions. Show your work.

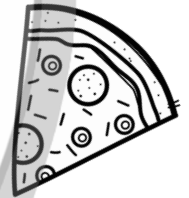
- 22** Paolo has an equal number of yellow and green blocks. He builds a tower using $\frac{7}{8}$ of the yellow blocks and $\frac{6}{10}$ of the green blocks. Are there more yellow or green blocks in the tower?



- 23** On Thursday, Jenna bought a gallon of milk and a gallon of lemonade. On Friday, $\frac{4}{5}$ of the milk is left and $\frac{3}{4}$ of the lemonade is left. Which drink has more left?



- 24** The Hussain family ordered pizzas for dinner. After, $\frac{3}{12}$ of the pepperoni pizza, $\frac{2}{3}$ of the cheese pizza, and $\frac{4}{8}$ of the mushroom pizza were left over. Which pizza has the least left?



- 25** The post office is $\frac{5}{10}$ of a mile away from Theo's house. The park is $\frac{4}{6}$ of a mile away from his house, and the library is $\frac{3}{8}$ of a mile away. Put the places in order from the nearest to the farthest from Theo's house.



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