LESSON MAKER PRO

Fraction Face-Off

Use fraction bars to compare parts of the same whole.

GRADE 3 · 3.NF.A.15

3.NF.A.15 "Explain equivalence and compare fractions by reasoning about their size using visual fraction models and number lines. a. Express whole numbers as fractions and recognize fractions that are equivalent to whole numbers. b..."

NAME _____ DATE _____

COMPARE THE PARTS

Compare fractions only when they refer to the same-size whole. If the denominators match, the fraction with more shaded parts is greater. If the numerators match and are greater than zero, the fraction with fewer parts in the whole is greater. One whole can also be written as a fraction with all its parts shaded.

WORKED EXAMPLE

Compare 5/7 and 5/9 using <, >, or =.

5/7



5/9



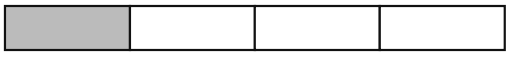
1. Both bars show the same-size whole.
2. Each fraction has 5 shaded parts.
3. Sevenths are larger parts than ninths, so 5 sevenths cover more of the bar.

Answer: 5/7 > 5/9

PRACTICE 6 problems

1 Compare 1/4 and 3/4. Write <, >, or =.

1/4



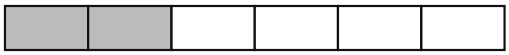
3/4



ANSWER _____

2 Compare 2/6 and 2/3. Write <, >, or =.

2/6



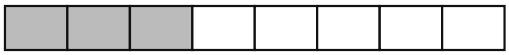
2/3



ANSWER _____

3 Compare 3/8 and 3/4. Write <, >, or =.

3/8



3/4



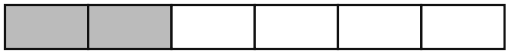
ANSWER _____

4 Compare 4/6 and 2/6. Write <, >, or =.

4/6



2/6



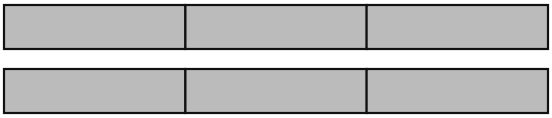
ANSWER _____

5 Use the bar to fill in the blank: 1 = ___/8.



ANSWER _____

6 Use both bars to fill in the blank: 2 = ___/3.

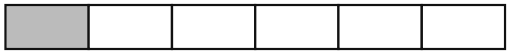


ANSWER _____

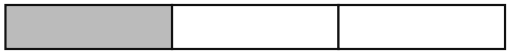
APPLY IT Show your work

1 Two friends have same-size pizzas. Ari eats 1/6 of one pizza, and Jo eats 1/3 of the other. Who eats more pizza? Write a comparison using < or > and explain why.

Ari



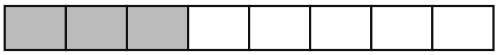
Jo



ANSWER _____

2 Maya and Leo each paint a same-size cardboard sign. Maya paints 3/8 of her sign blue, and Leo paints 6/8 of his sign blue. Who paints more of a sign blue? Write a comparison using < or > and explain why.

Maya



Leo



ANSWER _____

CHALLENGE One step up

Compare 2/4 and 3/6 using <, >, or =. Explain how the bars show your answer.

2/4



3/6



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Face-Off

GRADE 3 · 3.NF.A.15

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Compare 1/4 and 3/4. Write <, >, or =.	**1/4 < 3/4**
2	Compare 2/6 and 2/3. Write <, >, or =.	**2/6 < 2/3**
3	Compare 3/8 and 3/4. Write <, >, or =.	**3/8 < 3/4**
4	Compare 4/6 and 2/6. Write <, >, or =.	**4/6 > 2/6**
5	Use the bar to fill in the blank: 1 = ___/8.	**1 = 8/8**
6	Use both bars to fill in the blank: 2 = ___/3.	**2 = 6/3**

PART 2 · APPLY IT

1. **Jo eats more. 1/6 < 1/3 because one third is a larger piece of the same-size pizza than one sixth.** The pizzas are the same size, so their fractions can be compared. Each friend eats one piece, but Jo's third is larger than Ari's sixth.
2. **Leo paints more. 3/8 < 6/8 because 6 equal parts cover more of a same-size sign than 3 equal parts.** The signs are the same size and both are split into eighths. Compare the numbers of painted parts: 6 is greater than 3.

CHALLENGE

2/4 = 3/6. The shaded parts cover the same amount of each same-size bar.

Accept a correct comparison written with the fractions in either order. For explanations, look for reasoning about equal-size wholes and the size or number of their parts.