LESSON MAKER PRO

Fraction Face-Off

Compare shaded parts of the same-size whole.

GRADE 4 · 4.NF.2

4.NF.2 "Compare two fractions with different numerators and different denominators by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2..."

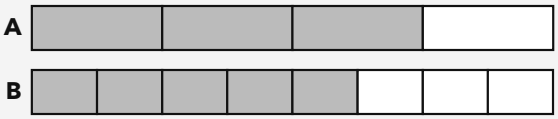
NAME _____ DATE _____

MAKE A FAIR COMPARISON

Fractions can be compared only when they name parts of the same-size whole. Use equal-length bars to see the shaded parts, then make common denominators or compare each fraction to 1/2. Record your result with >, <, or =.

WORKED EXAMPLE

Look at bars A and B. Which bar has the greater shaded fraction?

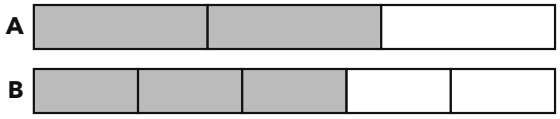


1. Bar A shows 3/4. Bar B shows 5/8.
2. Divide each fourth in bar A into two equal parts: 3/4 = 6/8.
3. Six eighths is greater than five eighths.

Answer: 3/4 > 5/8, so bar A has the greater shaded fraction.

PRACTICE 6 problems

1 Look at bars A and B. Write each shaded fraction, compare them with >, <, or =, and explain using fifteenths.



ANSWER _____

2 Look at bars A and B. Write each shaded fraction, compare them with >, <, or =, and explain using ninths.



ANSWER _____

3 Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them.

A



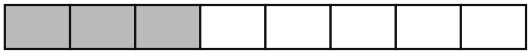
B



ANSWER _____

4 Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them. Explain how 1/2 helps you decide.

A



B



ANSWER _____

5 Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them.

A



B



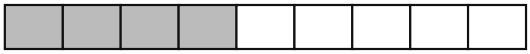
ANSWER _____

6 Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them.

A



B



ANSWER _____

APPLY IT Show your work

1 Nia and Ezra have same-size posters. Nia covers 4/7 of hers with stickers, and Ezra covers 5/9 of his. Who covers more of a poster? Use the bars to explain.



ANSWER _____

2 Jae and Sal play the same-length video game level. Jae finishes 5/6 of it, and Sal finishes 7/9. Who finishes more of the level? Use the bars to explain.



ANSWER _____

CHALLENGE One step up

Team A finishes 3/5 of a paper chain that will have 10 links. Team B finishes 2/3 of a paper chain that will have 12 links. Which team has finished more links? Explain why comparing 3/5 and 2/3 alone cannot tell you how many links each team has finished.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Face-Off

GRADE 4 · 4.NF.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at bars A and B. Write each shaded fraction, compare them with >, <, or =, and explain using fifteenths.	**A = 2/3 and B = 3/5, so 2/3 > 3/5. In equal-length bars, 2/3 = 10/15 and 3/5 = 9/15.**
2	Look at bars A and B. Write each shaded fraction, compare them with >, <, or =, and explain using ninths.	**A = 4/6 and B = 5/9, so 4/6 > 5/9. In equal-length bars, 4/6 = 6/9, and 6/9 > 5/9.**
3	Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them.	**5/6 > 7/10**
4	Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them. Explain how 1/2 helps you decide.	**3/8 < 4/7. Bar A is less than half shaded, while bar B is more than half shaded.**
5	Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them.	**6/9 = 8/12**
6	Compare the shaded fractions in bars A and B. Write their fractions with >, <, or = between them.	**7/12 > 4/9**

PART 2 · APPLY IT

1. **Nia covers more. 4/7 > 5/9.** The bars represent same-size posters. With 63 equal parts, Nia covers 36/63 and Ezra covers 35/63.
2. **Jae finishes more. 5/6 > 7/9.** The bars represent the same-length level. Jae finishes 15/18 of it, while Sal finishes 14/18.

CHALLENGE

Team B has finished more: 2/3 of 12 is 8 links, while 3/5 of 10 is 6 links. The fractions refer to chains with different total numbers of links, so comparing the fractions alone does not compare the numbers of finished links.

Accept equivalent fractions and correct visual explanations based on equal-length bars. In the challenge, students must account for the different whole-chain lengths.