LESSON MAKER PRO

Fraction Match Quest

Make equal fractions and compare their sizes.

GRADE 4 · 4.NF.A

CCSS.Math.Content.4.NF.A "Extend understanding of fraction equivalence and ordering."

NAME _____ DATE _____

EQUIVALENT AND ORDERED

Equivalent fractions name the same amount. Multiply or divide both the numerator and denominator by the same whole number greater than 0, when it divides evenly, to make an equivalent fraction. To compare fractions, use a shared denominator, or remember that with the same numerator, the smaller denominator makes the larger fraction.

WORKED EXAMPLE

Find an equivalent fraction for 3/4 by multiplying numerator and denominator by 2.

1. Multiply both by 2: (3 × 2)/(4 × 2) = 6/8.
2. Dividing each fourth into two equal parts changes the part count, not the amount.

Answer: 3/4 = 6/8

PRACTICE 6 problems

1 1/2 = x/10. What is x?

ANSWER _____

2 Are 2/3 and 8/12 equivalent?

ANSWER _____

3 Write <, >, or =: 3/4 __ 3/8

ANSWER _____

4 Put these fractions in order from least to greatest: 7/12, 1/12, 11/12.

ANSWER _____

5 4/10 = x/5. What is x?

ANSWER _____

6 Write <, >, or =: 5/6 __ 5/12

ANSWER _____

APPLY IT Show your work

1 At the library, Jalen has read 5/12 of a graphic novel. Maya has read 7/12 of the same graphic novel. Who has read more?

WORK SPACE

ANSWER

2 Two players filled equal-size progress bars in a game. Noor filled 2/5 of a bar, and Eli filled 4/10 of a bar. Did they fill equal amounts?

WORK SPACE

ANSWER

CHALLENGE One step up

Put these fractions in order from least to greatest: 1/2, 4/10, 7/10. Explain by rewriting 1/2 with denominator 10.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	1/2 = x/10. What is x?	**5**
2	Are 2/3 and 8/12 equivalent?	**Yes**
3	Write <, >, or =: 3/4 __ 3/8	**>**
4	Put these fractions in order from least to greatest: 7/12, 1/12, 11/12.	**1/12, 7/12, 11/12**
5	4/10 = x/5. What is x?	**2**
6	Write <, >, or =: 5/6 __ 5/12	**>**

PART 2 · APPLY IT

1. **Maya** The denominators are the same, so compare the numerators. Since 7 is greater than 5, Maya has read more.
2. **Yes, they filled equal amounts.** Multiply 2/5 by 2/2 to get 4/10. The fractions are equivalent.

CHALLENGE

4/10 < 1/2 < 7/10 because 1/2 = 5/10.

Accept equivalent fraction forms when they match the requested value or comparison. For the challenge, accept any clear explanation that shows 1/2 = 5/10 and gives the correct order.