

Fraction Match-Up

Build matching fractions in Practice, Apply, and Challenge.

GRADE 4 • 4.NS.3.e

4.NS.3.e "Represent equivalent fractions with denominators of 12 or less, with and without models.*"

NAME _____

DATE _____

THE BIG IDEA

Equivalent fractions name the same amount. Multiply or divide the numerator and denominator by the same whole number to make an equivalent fraction. You can also use a model to see whether the shaded amounts match.

WORKED EXAMPLE

Write an equivalent fraction for $\frac{5}{10}$ with denominator 2.

1. Start with $\frac{5}{10}$.
2. Divide the numerator, 5, by 5 to get 1.
3. Divide the denominator, 10, by 5 to get 2.

Answer: $\frac{5}{10} = \frac{1}{2}$

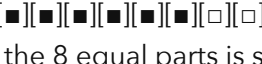
PRACTICE 6 problems

1. Complete the equivalent fraction: $\frac{3}{4} = \frac{\quad}{8}$

ANSWER _____

2. Complete the equivalent fraction: $\frac{2}{3} = \frac{\quad}{9}$

ANSWER _____

3. Model:  What fraction of the 8 equal parts is shaded? Write an equivalent fraction with denominator 4.

ANSWER _____

4. Which fraction is equivalent to $\frac{4}{5}$? Circle one: A. $\frac{6}{8}$ B. $\frac{8}{10}$ C. $\frac{9}{12}$

ANSWER _____

5. Complete the equivalent fraction: $\frac{5}{6} = \frac{\quad}{12}$

ANSWER _____

6. Complete the equivalent fraction: $\frac{1}{4} = \frac{\quad}{12}$

ANSWER _____

APPLY IT Show your work

- 1** 1. In a video game, Jalen has finished 9 of 12 quest levels. Write the fraction of levels he has finished as an equivalent fraction with denominator 4.

WORK SPACE

ANSWER _____

- 2** 2. Nora colored 4 of 6 equal panels on her poster. Write the fraction of panels she colored as an equivalent fraction with denominator 3.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Write two different fractions with denominators of 12 or less that are equivalent to $\frac{2}{3}$. Explain how you know they are equivalent.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	1. Complete the equivalent fraction: $\frac{3}{4} = \frac{\quad}{8}$	$\frac{3}{4} = \frac{6}{8}$
2	2. Complete the equivalent fraction: $\frac{2}{3} = \frac{\quad}{9}$	$\frac{2}{3} = \frac{6}{9}$
3	3. Model:  What fraction of the 8 equal parts is shaded? Write an equivalent fraction with denominator 4.	$\frac{6}{8} = \frac{3}{4}$
4	4. Which fraction is equivalent to $\frac{4}{5}$? Circle one: A. $\frac{6}{8}$ B. $\frac{8}{10}$ C. $\frac{9}{12}$	B. $\frac{8}{10}$
5	5. Complete the equivalent fraction: $\frac{5}{6} = \frac{\quad}{12}$	$\frac{5}{6} = \frac{10}{12}$
6	6. Complete the equivalent fraction: $\frac{1}{4} = \frac{\quad}{12}$	$\frac{1}{4} = \frac{3}{12}$

PART 2 • APPLY IT

1. **$\frac{3}{4}$** Start with $\frac{9}{12}$. Divide both the numerator and denominator by 3 to get $\frac{3}{4}$.
2. **$\frac{2}{3}$** Start with $\frac{4}{6}$. Divide both the numerator and denominator by 2 to get $\frac{2}{3}$.

CHALLENGE

$\frac{4}{6}$ and $\frac{6}{9}$. Multiply both parts of $\frac{2}{3}$ by 2 to get $\frac{4}{6}$, and multiply both parts by 3 to get $\frac{6}{9}$.

Accept any correctly written equivalent equation, even if the fraction is not simplified unless the requested denominator is met. For the challenge, accept any two different correct equivalent fractions with denominators of 12 or less and a valid same-factor explanation.