

Fraction Match Lab

Find fractions that name the same amount.

GRADE 3 • 3.NR.4.4

3.NR.4.4 "Recognize and generate simple equivalent fractions."

NAME _____

DATE _____

SAME AMOUNT, NEW NUMBERS

Equivalent fractions name the same amount. To make an equivalent fraction, multiply the numerator and denominator by the same whole number. You can also divide both numbers by the same whole number when they divide evenly.

WORKED EXAMPLE

Write an equivalent fraction for $\frac{4}{7}$ by multiplying both numbers by 2.

1. Multiply the numerator: $4 \times 2 = 8$.
2. Multiply the denominator: $7 \times 2 = 14$.
3. Write the new fraction: $\frac{8}{14}$.

Answer: $\frac{4}{7} = \frac{8}{14}$

PRACTICE 6 problems

1 Complete: $\frac{1}{2} = \frac{\quad}{12}$

ANSWER _____

2 Choose the fraction equivalent to $\frac{2}{9}$: $\frac{10}{45}$, $\frac{5}{9}$, or $\frac{9}{45}$.

ANSWER _____

3 Complete: $\frac{5}{11} = \frac{\quad}{22}$

ANSWER _____

4 Are $\frac{3}{15}$ and $\frac{1}{5}$ equivalent? Write yes or no.

ANSWER _____

5 Complete: $\frac{5}{9} = \frac{15}{\quad}$

ANSWER _____

6 Choose the equivalent pair: $\frac{1}{3}$ and $\frac{5}{15}$, $\frac{2}{5}$ and $\frac{6}{20}$, or $\frac{3}{11}$ and $\frac{9}{22}$.

ANSWER _____

APPLY IT Show your work

- 1** At the school art table, 6 of 18 beads are blue. Write an equivalent fraction for the blue beads with a denominator of 3.

WORK SPACE

ANSWER _____

- 2** A game has 18 levels. Kai finishes 12 levels. Write an equivalent fraction for the levels Kai finished with a denominator of 3.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Jada says $\frac{6}{10}$ and $\frac{9}{15}$ are equivalent. Is she correct? Explain how you know.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Complete: $1/2 = \underline{\hspace{1cm}}/12$	6/12
2	Choose the fraction equivalent to $2/9$: $10/45$, $5/9$, or $9/45$.	10/45
3	Complete: $5/11 = \underline{\hspace{1cm}}/22$	10/22
4	Are $3/15$ and $1/5$ equivalent? Write yes or no.	Yes
5	Complete: $5/9 = 15/\underline{\hspace{1cm}}$	27
6	Choose the equivalent pair: $1/3$ and $5/15$, $2/5$ and $6/20$, or $3/11$ and $9/22$.	1/3 and 5/15

PART 2 • APPLY IT

1. **1/3** The fraction is $6/18$. Divide the numerator and denominator by 6 to get $1/3$.
2. **2/3** Kai finished $12/18$ of the levels. Divide the numerator and denominator by 6 to get $2/3$.

CHALLENGE

Yes. Dividing $6/10$ by 2 and $9/15$ by 3 gives $3/5$ for both fractions.

For completion items, accept only the fraction that makes the equality true. For the word problems, the answer must have the requested denominator. For the challenge, accept an explanation that shows both fractions simplify to $3/5$ or are made by multiplying $3/5$ by whole numbers.