

Fraction Match-Up

Find fractions that name the same amount.

GRADE 3 • 3.NF.A.3a

CCSS.Math.Content.3.NF.A.3a "Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line."

NAME _____

DATE _____

SAME-SIZE FRACTIONS

Equivalent fractions name the same amount, even when their numerators and denominators look different. You can make an equivalent fraction by multiplying both the numerator and denominator by the same whole number.

WORKED EXAMPLE

Is $\frac{2}{5}$ equivalent to $\frac{6}{15}$?

1. Start with $\frac{2}{5}$.
2. Multiply the numerator: $2 \times 3 = 6$.
3. Multiply the denominator: $5 \times 3 = 15$.
4. Both parts were multiplied by the same number.

Answer: Yes, $\frac{2}{5} = \frac{6}{15}$.

PRACTICE 6 problems

1 Write = or $\neq$. $\frac{1}{4}$ ___ $\frac{7}{28}$

ANSWER _____

2 Write = or $\neq$. $\frac{4}{7}$ ___ $\frac{8}{9}$

ANSWER _____

3 Complete the equivalent fraction: $\frac{4}{7} = \frac{x}{14}$

ANSWER _____

4 Complete the equivalent fraction: $\frac{7}{9} = \frac{21}{x}$

ANSWER _____

5 A number line from 0 to 1 is divided into 28 equal parts. Which fraction names the same point as $\frac{1}{4}$: $\frac{7}{28}$, $\frac{9}{28}$, or $\frac{11}{28}$?

ANSWER _____

6 Choose the equivalent pair: $\frac{4}{9}$ and $\frac{8}{18}$, $\frac{7}{12}$ and $\frac{9}{14}$, or $\frac{11}{28}$ and $\frac{13}{28}$.

ANSWER _____

APPLY IT Show your work

- 1** At a game tournament, Nia filled $\frac{4}{9}$ of her quest bar. Omar filled $\frac{8}{18}$ of his quest bar. Did they fill the same fraction of their quest bars?

WORK SPACE

ANSWER _____

- 2** In a building game, Ezra filled $\frac{7}{12}$ of a progress meter on one round. On another round, Ezra filled $\frac{14}{24}$ of a progress meter. Did Ezra fill the same fraction each time?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Mia says that $\frac{7}{10}$, $\frac{14}{20}$, and $\frac{21}{30}$ are all equivalent fractions. Is Mia correct? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write = or $\neq$. $\frac{1}{4}$ ___ $\frac{7}{28}$	=
2	Write = or $\neq$. $\frac{4}{7}$ ___ $\frac{8}{9}$	$\neq$
3	Complete the equivalent fraction: $\frac{4}{7} = \frac{x}{14}$	x = 8
4	Complete the equivalent fraction: $\frac{7}{9} = \frac{21}{x}$	x = 27
5	A number line from 0 to 1 is divided into 28 equal parts. Which fraction names the same point as $\frac{1}{4}$: $\frac{7}{28}$, $\frac{9}{28}$, or $\frac{11}{28}$?	$\frac{7}{28}$
6	Choose the equivalent pair: $\frac{4}{9}$ and $\frac{8}{18}$, $\frac{7}{12}$ and $\frac{9}{14}$, or $\frac{11}{28}$ and $\frac{13}{28}$.	$\frac{4}{9}$ and $\frac{8}{18}$

PART 2 • APPLY IT

- Yes, they filled the same fraction.** $\frac{4}{9} = \frac{8}{18}$ because both the numerator and denominator of $\frac{4}{9}$ were multiplied by the same amount.
- Yes, $\frac{7}{12} = \frac{14}{24}$.** $\frac{14}{24}$ is an equivalent fraction for $\frac{7}{12}$ because both parts of the fraction were scaled by the same amount.

CHALLENGE

Yes. $\frac{7}{10} = \frac{14}{20} = \frac{21}{30}$ because the numerator and denominator are multiplied by the same amount in each equivalent fraction.

Accept equivalent-fraction explanations that say the fractions name the same amount or the same point on a number line. For the challenge, accept any correct explanation that both parts of each fraction are scaled by the same factor.