

Fraction Match Up

Find equal fractions and compare their sizes.

GRADE 3 • NY-3.NF.3

NY-3.NF.3 "Explain equivalence of fractions and compare fractions by reasoning about their size."

NAME _____

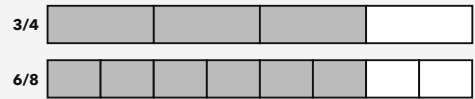
DATE _____

EQUAL OR GREATER?

Equivalent fractions name the same amount. You can multiply or divide the numerator and denominator by the same number. To compare fractions, use equal-sized parts or think about the benchmark fraction $\frac{1}{2}$.

WORKED EXAMPLE

Show that $\frac{3}{4}$ and $\frac{6}{8}$ are equivalent fractions.



1. Start with $\frac{3}{4}$.
2. Multiply the numerator and denominator by 2.
3. $\frac{3}{4} = (3 \times 2)/(4 \times 2) = \frac{6}{8}$.

Answer: $\frac{3}{4} = \frac{6}{8}$

PRACTICE 6 problems

- 1** Write the missing numerator: $\frac{1}{2} = \frac{\quad}{4}$

ANSWER _____

- 2** Which fraction is equivalent to $\frac{3}{6}$? Write it.
Choices: $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$

ANSWER _____

- 3** Write $>$, $<$, or $=$. $\frac{3}{8}$ ____ $\frac{1}{2}$

ANSWER _____

- 4** Write $>$, $<$, or $=$. $\frac{5}{6}$ ____ $\frac{1}{2}$

ANSWER _____

- 5** Use the fraction bars. Write $>$, $<$, or $=$. $\frac{2}{3}$ ____ $\frac{3}{6}$



ANSWER _____

- 6** Write a fraction with denominator 3 that is equivalent to $\frac{4}{6}$.

ANSWER _____

APPLY IT Show your work

- 1** Kai completed $\frac{5}{8}$ of the badges in a video game. Zoe completed $\frac{2}{3}$ of the badges. Who completed more badges?



ANSWER _____

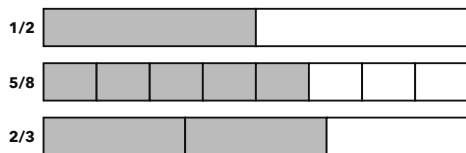
- 2** Mila decorates $\frac{1}{2}$ of her sign for the school fair. Rowan decorates $\frac{4}{8}$ of her same-size sign. Did they decorate equal amounts? Explain.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use the fraction bars to put these fractions in order from greatest to least: $\frac{1}{2}$, $\frac{5}{8}$, $\frac{2}{3}$. Explain how the bars helped you.



WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write the missing numerator: $1/2 = \underline{\quad}/4$	2
2	Which fraction is equivalent to $3/6$? Write it. Choices: $1/2$, $2/3$, $3/4$	$1/2$
3	Write $>$, $<$, or $=$. $3/8$ $\underline{\quad}$ $1/2$	$<$
4	Write $>$, $<$, or $=$. $5/6$ $\underline{\quad}$ $1/2$	$>$
5	Use the fraction bars. Write $>$, $<$, or $=$. $2/3$ $\underline{\quad}$ $3/6$	$>$
6	Write a fraction with denominator 3 that is equivalent to $4/6$.	$2/3$

PART 2 • APPLY IT

1. **Zoe completed more badges. $2/3 > 5/8$.** Compare the shaded fraction bars. Zoe's shaded amount is longer than Kai's shaded amount.
2. **Yes. $1/2 = 4/8$.** Four out of eight equal parts is the same as one out of two equal parts.

CHALLENGE

$2/3 > 5/8 > 1/2$. The $2/3$ bar has the most shaded length, and the $1/2$ bar has the least.

Accept equivalent fraction forms only when they use the requested denominator. For comparison items, accept the correct comparison symbol or a correct written comparison.