

Fraction Match Quest

Use equal parts to add, subtract, match, and compare fractions.

GRADE 4 • 4.NR.4

4.NR.4 "Solve real-life problems involving addition, subtraction, equivalence, and comparison of fractions with denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100 using part-whole strategies and visual models."

NAME _____

DATE _____

BUILD WITH EQUAL PARTS

A fraction bar shows one whole split into equal parts. Add or subtract fractions with the same denominator by working with the numerators. To compare fractions with different denominators, rename them as equivalent fractions with the same-sized parts.

WORKED EXAMPLE

Find $\frac{4}{12} + \frac{3}{12}$.

1. Both fractions name twelfths.
2. Add the numerators: $4 + 3 = 7$.
3. Keep the denominator 12.

Answer: $\frac{7}{12}$

PRACTICE 6 problems

1 Find $\frac{1}{8} + \frac{3}{8}$. Use a fraction bar if it helps.

ANSWER _____

2 Find $\frac{5}{6} - \frac{1}{6}$.

ANSWER _____

3 Fill in the blank: $\frac{1}{2} = \frac{\quad}{8}$

ANSWER _____

4 Write $<$, $>$, or $=$: $\frac{3}{4}$ ____ $\frac{5}{8}$

ANSWER _____

5 Find $\frac{2}{3} + \frac{1}{6}$. Rename $\frac{2}{3}$ using sixths.

ANSWER _____

6 Find $\frac{9}{10} - \frac{1}{5}$. Rename $\frac{1}{5}$ using tenths.

ANSWER _____

APPLY IT Show your work

- 1** For the school talent show, Jada chose $\frac{3}{8}$ of the songs for a dance section and $\frac{1}{4}$ of the songs for a singing section. What fraction of the songs did Jada choose for these two sections?

WORK SPACE

ANSWER _____

- 2** By the end of Monday, the game design club had completed $\frac{5}{6}$ of a storyboard. On Tuesday, the club completed another $\frac{1}{12}$ of the whole storyboard. What fraction of the whole storyboard was completed by the end of Tuesday?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Maya read $\frac{2}{3}$ of a comic book on Saturday and $\frac{1}{12}$ of the whole comic book on Sunday. Leo read $\frac{3}{4}$ of the same comic book. Who read more, or did they read the same amount? Explain in 1 or 2 sentences using equivalent fractions.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find $\frac{1}{8} + \frac{3}{8}$. Use a fraction bar if it helps.	$\frac{1}{2}$
2	Find $\frac{5}{6} - \frac{1}{6}$.	$\frac{2}{3}$
3	Fill in the blank: $\frac{1}{2} = \frac{\quad}{8}$	$\frac{4}{8}$
4	Write $<$, $>$, or $=$: $\frac{3}{4}$ $\frac{5}{8}$	$>$
5	Find $\frac{2}{3} + \frac{1}{6}$. Rename $\frac{2}{3}$ using sixths.	$\frac{5}{6}$
6	Find $\frac{9}{10} - \frac{1}{5}$. Rename $\frac{1}{5}$ using tenths.	$\frac{7}{10}$

PART 2 • APPLY IT

1. **$\frac{5}{8}$** Rename $\frac{1}{4}$ as $\frac{2}{8}$. Then add $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$.
2. **$\frac{11}{12}$** Rename $\frac{5}{6}$ as $\frac{10}{12}$. Then add $\frac{10}{12} + \frac{1}{12} = \frac{11}{12}$.

CHALLENGE

They read the same amount, $\frac{3}{4}$. Maya read $\frac{2}{3} = \frac{8}{12}$, and $\frac{8}{12} + \frac{1}{12} = \frac{9}{12} = \frac{3}{4}$, which matches Leo.

Accept equivalent simplified or unsimplified fraction answers when they name the same amount, such as $\frac{4}{8}$ for $\frac{1}{2}$ and $\frac{10}{12}$ for $\frac{5}{6}$. For the comparison item, accept only the correct symbol.