

Fraction Copy Power

Build non-unit fractions one equal part at a time.

GRADE 3 • 3.NR.4.1

3.NR.4.1 "Describe a unit fraction and explain how multiple copies of a unit fraction form a non-unit fraction. Use parts of a whole, parts of a set, points on a number line, distances on a number line and area models."

NAME _____

DATE _____

ONE PART, THEN MORE

A unit fraction names one equal part of a whole or set. Its top number is 1, such as $\frac{1}{8}$. When you put together equal unit fractions, the number of copies becomes the top number of a non-unit fraction.

WORKED EXAMPLE

A square is split into 8 equal parts. Three parts are colored. What fraction is colored?

1. One equal part is $\frac{1}{8}$.
2. Three colored parts are 3 copies of $\frac{1}{8}$.
3. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{3}{8}$.

Answer: $\frac{3}{8}$

PRACTICE 6 problems

- 1** A sandwich is cut into 6 equal pieces. What unit fraction is one piece?

ANSWER _____

- 2** Four of 5 equal parts of a flag are colored. Write the fraction colored and name the unit fraction that was copied.

ANSWER _____

- 3** Twelve stickers are separated into 4 equal groups. What fraction of the sticker set is one group?

ANSWER _____

- 4** A number line from 0 to 1 is split into 10 equal jumps. A point is 7 jumps from 0. What fraction names the point? Name the unit fraction copied.

ANSWER _____

- 5** On a number line marked in sixths, what is the distance from $\frac{1}{6}$ to $\frac{3}{6}$? Name the unit fraction copied.

ANSWER _____

- 6** A rectangle is split into 9 equal squares. Five squares are shaded. What fraction is shaded? Name the unit fraction copied.

ANSWER _____

APPLY IT Show your work

- 1** At soccer practice, a 20-minute drill is split into 4 equal time blocks. The team finishes 3 blocks. What fraction of the drill do they finish? Explain using copies of a unit fraction.

WORK SPACE

ANSWER _____

- 2** Jalen has 21 trading cards. He puts them into 7 equal piles and gives 5 piles to friends. What fraction of his cards does he give away? Explain using copies of a unit fraction.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A robot starts at 0 on a number line. Each equal jump is $\frac{1}{6}$ of a whole. The robot makes 9 jumps. Where does it land? Explain how the unit fraction helps you.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A sandwich is cut into 6 equal pieces. What unit fraction is one piece?	1/6
2	Four of 5 equal parts of a flag are colored. Write the fraction colored and name the unit fraction that was copied.	4/5; four copies of 1/5
3	Twelve stickers are separated into 4 equal groups. What fraction of the sticker set is one group?	1/4
4	A number line from 0 to 1 is split into 10 equal jumps. A point is 7 jumps from 0. What fraction names the point? Name the unit fraction copied.	7/10; seven copies of 1/10
5	On a number line marked in sixths, what is the distance from 1/6 to 3/6? Name the unit fraction copied.	2/6; two copies of 1/6
6	A rectangle is split into 9 equal squares. Five squares are shaded. What fraction is shaded? Name the unit fraction copied.	5/9; five copies of 1/9

PART 2 • APPLY IT

- 3/4; three copies of 1/4** One time block is 1/4 of the drill. Three equal blocks make 3/4.
- 5/7; five copies of 1/7** Each equal pile is 1/7 of the card set. Giving away 5 piles is 5 copies of 1/7, or 5/7.

CHALLENGE

9/6, or 1 3/6; nine copies of 1/6

Accept equivalent fractions when they match the model, but require students to name the requested unit fraction and number of copies. For the challenge, accept 9/6, 1 3/6, or 1 1/2 if the student explains that nine jumps of 1/6 were made.