

Equal Parts Quest

Name, compare, and build fractions.

GRADE 2 • 2.NS.3

2.NS.3 "The student will use mathematical reasoning and justification to solve contextual problems that involve partitioning models into equal-sized parts (halves, fourths, eighths, thirds, and sixths)..."

NAME _____

DATE _____

EQUAL PARTS

Fractions name equal parts of one whole. More equal parts means each part is smaller. Count equal parts to make a whole.

WORKED EXAMPLE

A flower bed has 3 equal rows. Each row has 7 flowers. How many flowers are in the whole bed?

1. There are 3 equal rows.
2. Count 7 flowers in each row.
3. $7 + 7 + 7 = 21$.

Answer: 21 flowers

PRACTICE 4 problems

- 1** A cookie is cut into 4 equal pieces. Ava eats 1 piece. What fraction of the cookie did Ava eat?

ANSWER _____

- 2** A pizza is cut into 6 equal slices. One slice is left. What fraction of the pizza is left?

ANSWER _____

- 3** Two same-size paper strips are each one whole. One is cut into 2 equal parts. One is cut into 8 equal parts. Which piece is larger? Write a comparison.

ANSWER _____

- 4** A toy bin has 4 equal sections. Each section has 5 cars. How many cars fill the whole bin?

ANSWER _____

APPLY IT Show your work

- 1** A game path has 6 equal spaces. Kai moves 5 spaces. What fraction of the path did Kai move?

WORK SPACE

ANSWER _____

- 2** Half of a pack has 9 trading cards. How many cards are in one whole pack?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A whole granola bar is cut into 4 equal parts. Another same-size bar is cut into 8 equal parts. Which unit fraction is greater? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A cookie is cut into 4 equal pieces. Ava eats 1 piece. What fraction of the cookie did Ava eat?	$\frac{1}{4}$
2	A pizza is cut into 6 equal slices. One slice is left. What fraction of the pizza is left?	$\frac{1}{6}$
3	Two same-size paper strips are each one whole. One is cut into 2 equal parts. One is cut into 8 equal parts. Which piece is larger? Write a comparison.	$\frac{1}{2} > \frac{1}{8}$
4	A toy bin has 4 equal sections. Each section has 5 cars. How many cars fill the whole bin?	20 cars

PART 2 • APPLY IT

1. **$\frac{5}{6}$** The whole path has 6 equal spaces. Kai moved 5 of the 6 spaces.
2. **18 cards** A whole has 2 halves. Count 9 cards two times: $9 + 9 = 18$.

CHALLENGE

$\frac{1}{4} > \frac{1}{8}$ because fourths are larger than eighths.

Accept fraction words, such as one-fourth, for unit fractions. For the challenge, accept any explanation that says fewer equal parts make larger parts.