

Parts Get Smaller

Compare one equal part of same-size wholes.

GRADE 2 • 2.NS.3.b

2.NS.3.b "Describe the relationship between the number of fractional parts needed to make a whole and the size of the parts (i.e., as the whole is divided into more parts, each part becomes smaller)."

NAME _____

DATE _____

THE BIG IDEA

When a whole is split into more equal parts, each part is smaller. When it is split into fewer equal parts, each part is bigger.

WORKED EXAMPLE

One same-size pancake is cut into 3 equal pieces. Another is cut into 6 equal pieces. Which one-piece share is bigger?

1. The pancakes are the same size.
2. 3 parts is fewer than 6 parts.
3. A $\frac{1}{3}$ piece is bigger than a $\frac{1}{6}$ piece.

Answer: $\frac{1}{3}$ is bigger.

PRACTICE 4 problems

- 1** A snack bar is cut into 2 equal parts. Another same-size snack bar is cut into 4 equal parts. Which single piece is bigger?

ANSWER _____

- 2** A sandwich is cut into 4 equal parts. Another same-size sandwich is cut into 8 equal parts. Which single piece is bigger?

ANSWER _____

- 3** An apple is cut into 8 equal slices. Another same-size apple is cut into 12 equal slices. Which single slice is bigger?

ANSWER _____

- 4** A cheese sandwich is cut into 10 equal pieces. Is one piece bigger or smaller than one piece from a same-size sandwich cut into 2 equal pieces?

ANSWER _____

APPLY IT Show your work

- 1** Ava cuts a cookie into 5 equal pieces. Ben cuts an equal-size cookie into 10 equal pieces. Who has the bigger one-piece share?

WORK SPACE

ANSWER _____

- 2** One ribbon is cut into 7 equal pieces. A same-length ribbon is cut into 14 equal pieces. Which ribbon has the smaller piece?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Three same-size brownies are cut into 4, 8, and 16 equal pieces. Write the one-piece shares from biggest to smallest. Then finish: More parts make ____ pieces.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A snack bar is cut into 2 equal parts. Another same-size snack bar is cut into 4 equal parts. Which single piece is bigger?	$\frac{1}{2}$
2	A sandwich is cut into 4 equal parts. Another same-size sandwich is cut into 8 equal parts. Which single piece is bigger?	$\frac{1}{4}$
3	An apple is cut into 8 equal slices. Another same-size apple is cut into 12 equal slices. Which single slice is bigger?	$\frac{1}{8}$
4	A cheese sandwich is cut into 10 equal pieces. Is one piece bigger or smaller than one piece from a same-size sandwich cut into 2 equal pieces?	smaller

PART 2 • APPLY IT

1. **Ava, with $\frac{1}{5}$.** Ava's cookie has fewer equal parts. One fifth is bigger than one tenth.
2. **The ribbon cut into 14 pieces.** More equal parts make smaller pieces. One fourteenth is smaller than one seventh.

CHALLENGE

$\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$; smaller

Accept fraction names such as one half and one fourth. For comparison items, accept the fraction or a clear description of the correct piece.