LESSON MAKER PRO

Parts of a Whole

Count equal parts to name fractions.

GRADE 3 · 3.NOS.F.10.b

3.NOS.F.10.b "Explain that a fraction 1/d represents one part of a whole that is divided into d equal parts, and that a fraction c/d represents c parts of size 1/d."

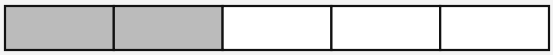
NAME _____ **DATE** _____

THE BIG IDEA

When a whole is split into d equal parts, each part is 1/d. If you have c of those parts, you have c/d of the whole.

WORKED EXAMPLE

What fraction of the bar is shaded?



1. Count 5 equal parts.
2. Count 2 shaded parts.
3. Write 2/5.

Answer: 2/5

PRACTICE 4 problems

1 A whole has 3 equal parts. What fraction is one part?

ANSWER _____

2 A whole has 4 equal parts. What fraction is 3 parts?

ANSWER _____

3 Each part is 1/6 of a whole. What fraction is 4 parts?

ANSWER _____

4 A whole has 8 equal parts. How many parts are in 7/8 of the whole?

ANSWER _____

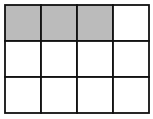
APPLY IT Show your work

1 Mia eats the shaded part of a fruit bar. What fraction of the bar does she eat?

fruit bar 

ANSWER _____

2 Jay covers the shaded spaces on his game board. What fraction of the board is covered?



ANSWER _____

CHALLENGE One step up

Nora cuts a ribbon into 12 equal pieces and uses 8. Sam says she used 8/1 of the ribbon. Explain Sam's mistake and give the correct fraction.

WORK SPACE AND ANSWER

ANSWER KEY

Parts of a Whole

GRADE 3 · 3.NOS.F.10.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A whole has 3 equal parts. What fraction is one part?	**1/3**
2	A whole has 4 equal parts. What fraction is 3 parts?	**3/4**
3	Each part is 1/6 of a whole. What fraction is 4 parts?	**4/6**
4	A whole has 8 equal parts. How many parts are in 7/8 of the whole?	**7 parts**

PART 2 · APPLY IT

1. **6/9** The bar has 9 equal parts, and 6 are shaded. Mia eats 6/9 of the bar.
2. **3/12** The board has 12 equal spaces, and 3 are shaded. Jay covers 3/12 of the board.

CHALLENGE

Nora used 8/12 of the ribbon. The denominator is 12 because the whole has 12 equal pieces, not 1.

Accept 1/3 for 4/12 and 2/3 for 8/12 if the student explains the equal parts correctly. For the challenge, the explanation must identify 12 as the number of equal pieces in the whole.