LESSON MAKER PRO

Fraction Model Mission

Show fractions with pictures, numbers, and words.

GRADE 3 · 3.NR.4

3.NR.4 "Represent fractions with denominators of 2, 3, 4, 6 and 8 in multiple ways within a framework using visual models."

NAME _____ DATE _____

PARTS OF ONE WHOLE

The denominator tells how many equal parts make one whole. The numerator tells how many equal parts are chosen or shaded. Use a fraction bar to connect the model to the fraction.

WORKED EXAMPLE

Write the fraction shown by the shaded parts of the bar.



1. Count 8 equal parts in the whole bar.
2. Count 5 shaded parts.
3. Write shaded parts over total equal parts: 5/8.

Answer: 5/8

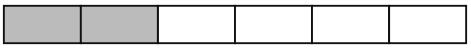
PRACTICE 6 problems

1 Write the fraction shown by the shaded parts of the bar.



ANSWER _____

2 Write the fraction shown by the shaded parts of the bar.



ANSWER _____

3 Write 1/2 in words.

ANSWER _____

4 In 4/6, what does the denominator 6 tell you?

ANSWER _____

5 A mural has 8 equal panels. Three panels show planets. Write the fraction of panels that show planets. Then write the fraction in words.

ANSWER _____

6 Write the fraction for 2 parts out of 3 equal parts. Then write it in words.

ANSWER _____

APPLY IT Show your work

1 A robot's battery meter is split into 6 equal sections. The model shows the sections that are full. Write the fraction that is full. Is that fraction greater than or less than 1/2?

Battery meter 

ANSWER _____

2 At art club, 2 of 4 equal spaces on a poster are covered with photos. Write the fraction covered. Write it in words. Then write a fraction with denominator 2 that names the same amount.

WORK SPACE

ANSWER _____

CHALLENGE One step up

The two bars are split into different numbers of equal parts. Do they show the same amount shaded? Explain how you know.

Bar A 

Bar B 

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Model Mission

GRADE 3 · 3.NR.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write the fraction shown by the shaded parts of the bar.	**3/4**
2	Write the fraction shown by the shaded parts of the bar.	**2/6**
3	Write 1/2 in words.	**one-half**
4	In 4/6, what does the denominator 6 tell you?	**The whole is split into 6 equal parts.**
5	A mural has 8 equal panels. Three panels show planets. Write the fraction of panels that show planets. Then write the fraction in words.	**3/8, three-eighths**
6	Write the fraction for 2 parts out of 3 equal parts. Then write it in words.	**2/3, two-thirds**

PART 2 · APPLY IT

1. **4/6, greater than 1/2** There are 4 full sections out of 6 equal sections, so the fraction is 4/6. More than half of the sections are full.
2. **2/4, two-fourths, 1/2** Two of the four equal spaces are covered, so the fraction is 2/4. Two-fourths is the same amount as one-half.

CHALLENGE

Yes. Bar A shows 2/4, which is 1/2. Bar B shows 3/6, which is also 1/2.

Accept correct fraction word forms with or without a hyphen. For the challenge, accept an explanation that both models have one-half shaded, or that 2/4 and 3/6 are equivalent to 1/2.