

Fraction Picture Paths

Show fractions with models, 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 _____

SHOW EQUAL PARTS

A fraction names equal parts of one whole. The bottom number tells how many equal parts make the whole, and the top number tells how many parts are selected. You can show a fraction with a model, a number, and words.

WORKED EXAMPLE

Look at the model: $\begin{array}{|c|c|c|c|c|} \hline \text{X} & \text{X} & \text{X} & \text{X} & \text{X} \\ \hline \end{array}$ Write the fraction shown and write it in words.

1. Count all equal parts. There are 8 parts.
2. Count the selected parts. There are 5 selected parts.
3. Write selected parts over total parts: $\frac{5}{8}$.
4. Write the fraction in words: five eighths.

Answer: $\frac{5}{8}$, five eighths

PRACTICE 6 problems

- 1** Look at the model: $\begin{array}{|c|c|c|} \hline \text{X} & \text{X} & \text{X} \\ \hline \end{array}$ Write the fraction shown.

ANSWER _____

- 2** Look at the model: $\begin{array}{|c|} \hline \text{X} \\ \hline \end{array}$ Write the fraction shown in numbers and words.

ANSWER _____

- 3** Look at the model: $\begin{array}{|c|c|c|c|} \hline \text{X} & \text{X} & \text{X} & \text{X} \\ \hline \end{array}$ Write the fraction shown in numbers and words.

ANSWER _____

- 4** Shade 2 equal parts in this framework: $\begin{array}{|c|c|} \hline & \\ \hline \end{array}$ Then write the fraction and words for the shaded part.

ANSWER _____

- 5** Shade 1 equal part in this framework: $\begin{array}{|c|c|} \hline & \\ \hline \end{array}$ Then write the fraction and words for the shaded part.

ANSWER _____

- 6** Model A is $\begin{array}{|c|c|} \hline \text{X} & \text{X} \\ \hline \end{array}$. Model B is $\begin{array}{|c|} \hline \text{X} \\ \hline \end{array}$. Which fraction for Model A has the same value as Model B?

ANSWER _____

APPLY IT Show your work

- 1** At an arcade game, 6 equal prize spaces are on a wheel. 4 spaces have a star. Use this framework to show the star spaces: [][][][][][] Write the fraction of spaces with stars and write it in words.

WORK SPACE

ANSWER _____

- 2** A comic book has 2 equal parts to read today. Jalen reads 1 part. Use this framework to show the part Jalen read: [][] Write the fraction and words.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Model A is $\frac{3}{4}$. Model B is $\frac{1}{2}$. Do the models show the same amount shaded? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Look at the model: [X][X][X][] Write the fraction shown.	3/4
2	Look at the model: [X][] Write the fraction shown in numbers and words.	1/2, one half
3	Look at the model: [X][X][X][X][] Write the fraction shown in numbers and words.	4/6, four sixths
4	Shade 2 equal parts in this framework: [][][] Then write the fraction and words for the shaded part.	Shade 2 of the 3 parts; 2/3, two thirds
5	Shade 1 equal part in this framework: [][][][] Then write the fraction and words for the shaded part.	Shade 1 of the 4 parts; 1/4, one fourth
6	Model A is [X][X][][]. Model B is [X][]. Which fraction for Model A has the same value as Model B?	2/4

PART 2 • APPLY IT

- Shade 4 of the 6 spaces; 4/6, four sixths** There are 6 equal spaces in all and 4 star spaces. Write 4/6 and four sixths.
- Shade 1 of the 2 parts; 1/2, one half** Jalen read 1 of 2 equal parts. Write 1/2 and one half.

CHALLENGE

Yes. Model A shows 3/6 shaded, and Model B shows 1/2 shaded. Both show one half of the whole.

Accept correct models with the stated number of equal shaded parts. Accept fraction words with or without a hyphen, such as one half or one-half.