

NAME _____

Module 4 Fractions, Decimals, Percents, and Factors
Lesson 1 Concepts of Fractions, Ratios, and Percents

Lesson Objectives

- Use models and visual representations to develop the concepts of the following *fractions*: parts of unit wholes, parts of a collection, locations on number lines, locations on rulers (*benchmark fractions*), division of whole numbers.
- Use models and visual representations to develop the concepts of the following *ratios*: part-to-part (two boys to three girls) and part-to-whole (two boys to five people).
- Use models and visual representations to develop the concepts of *percents*: part to -100.

Subtopic 1 Fractions

- A _____ is a number that is the result of a division.
- A fraction is a _____ that names equal parts of a whole or equal parts of a group.
- In the fraction $\frac{3}{4}$, the _____ 4 (bottom number) tells the total number of equal parts in the whole.
- In the fraction $\frac{3}{4}$, the _____ 3 (top number) tells how many equal parts are named.
- In a _____ fraction, the numerator is less than the denominator.
- A proper fraction is less than _____.
- In an _____ fraction, the numerator is greater than or equal to the denominator.
- An improper fraction is greater than or equal to _____.
- $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$ are commonly used _____.

1

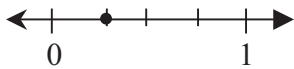
Name the fraction shown by the shaded region.



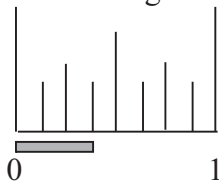
- 2 Name the fraction of moons that is blue.



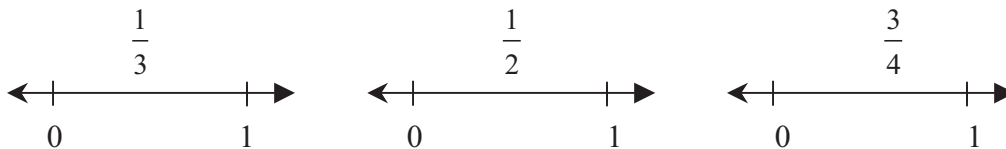
- 3 What fraction does the point on the number line represent?



- 4 What is the length of the yellow rectangle?



- 5 Locate each benchmark fraction on the number line.



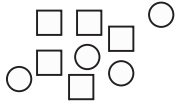
Subtopic 2 Ratios: Part-to-Whole

- A _____ is a comparison of two quantities.
- Ratios may be part-to-_____ or part-to-_____.

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6 What is the ratio of circles to all shapes?

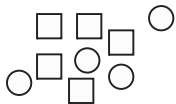


7 What is the ratio of girls to people?



Subtopic 3 Ratios: Part-to-Part

8 What is the ratio of circles to squares?



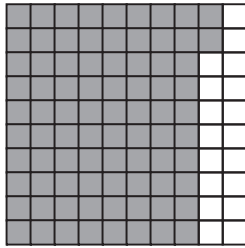
9 What is the ratio of boys to girls?



Subtopic 4**Percent**

- _____ means “for every one hundred.”
- _____ is the percent sign.
- 3% means _____ out of _____.

10 What percent is shaded?



11 What fraction is shaded?
What is the ratio of shaded squares to total squares?
What percent is shaded?

