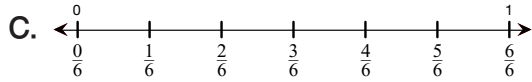


Student Guide

Fractions on Number Lines (SG pp. 74–75)
Questions 1–3

1. A.* 6

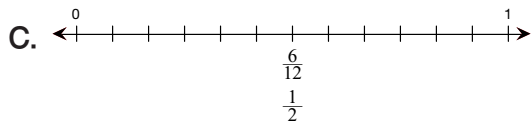
B. $\frac{1}{6}$



D. $\frac{1}{2}$ and $\frac{3}{6}$

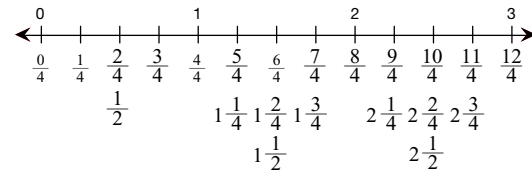
2. A. 12

B. $\frac{1}{12}$



3. A.* 1 or $\frac{4}{4}$

B–C.



D.* Possible response: Joe thought that the 12 marks on the line meant the line was divided into twelfths. I'd remind him that the unit whole is $\frac{4}{4}$ and that there are 3 wholes shown on the line.

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Fractions on Number Lines

Below is a rectangle divided into four equal parts. Each part is $\frac{1}{4}$ of the rectangle. Underneath is a number line from 0 to 1. It is also divided into 4 equal parts. It has $\frac{1}{4}$ at the point that is one fourth of the distance from 0 to 1. It has $\frac{2}{4}$ at the point that is $\frac{2}{4}$ of the distance from 0 to 1, and so on.

Discuss

Show or tell your partner the answer to each question.

- Here is another number line. On a number line, the unit whole is the distance from 0 to 1.

- How many equal parts is the distance from 0 to 1 divided into?
- What is a fraction label for point A?
- Name labels for all the points.
- Find the point that is half the distance from 0 to 1. Give two fraction labels for that point.

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Fractions on Number Lines

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- Here is another number line.

- How many equal parts is the distance from 0 to 1 divided into?
- What is a fraction label for point A?
- Find $\frac{6}{12}$ on the number line. What is another fraction for that point?

- This is a number line from 0 to 3. The distance between each whole number is divided into fourths. The labels show the distance from 0.

- What is the unit whole?
- Some of the points have been labeled. Tell how to label the rest of this number line.
- Tell another way to label this number line with equivalent fractions. For example, the point $\frac{6}{4}$ could also be labeled $1\frac{1}{2}$.
- Joe Smart labeled the number line this way:

What would you say to Joe to help him?

Use the Show Fractions on Number Lines and Represent Fractions pages in the Student Activity Book to practice showing fractions in a variety of ways.

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Fractions on Number Lines

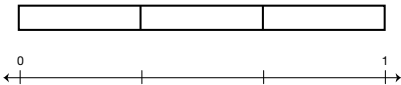
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*Answers and/or discussion are included in the lesson.


Name _____ Date _____

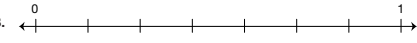
Show Fractions on Number Lines

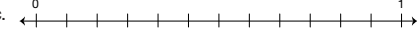


1. A. The number line above is divided into how many equal parts? _____
 B. Label each mark on the number line above with fractions. Find a fraction for 0 and 1, too.

2. Label each mark on the number lines with fractions.

A. 

B. 

C. 

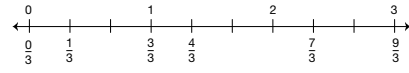
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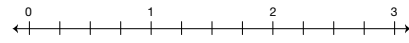
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Name _____ Date _____


3. A. Finish labeling this number line to show thirds from 0 to 3.





B. Label this number line to show fourths from 0 to 3.



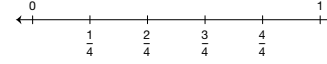
4. Use a centimeter ruler to find fractions on these number lines.

A. Halves 

B. Fifths 

C. Tenths 

5. Kim marked her number line for fourths like this:



Do you agree? Why or why not?

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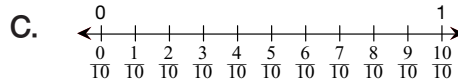
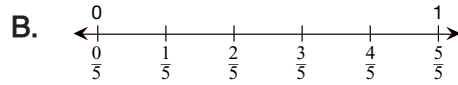
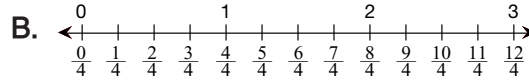
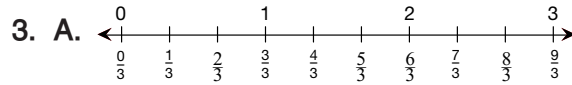
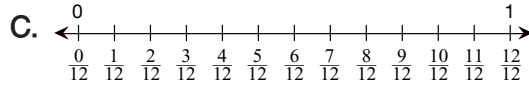
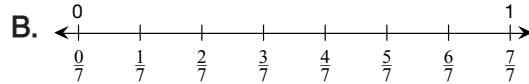
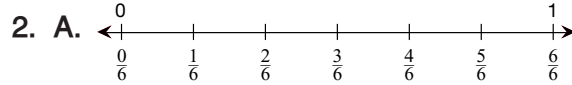
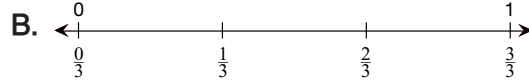
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*Answers and/or discussion are included in the lesson.

Student Activity Book

**Show Fractions on Number Lines
(SAB pp. 45–46)
Questions 1–5**

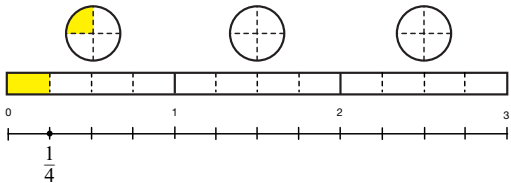
1. A. 3

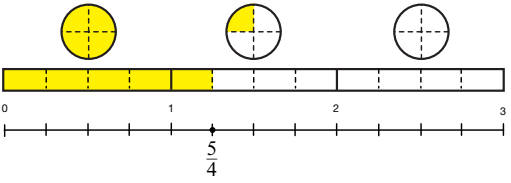


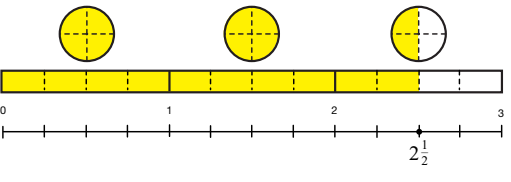
5.* Kim has marked her number line incorrectly. Possible response: Kim divided the number line with 4 marks to show fourths instead of dividing the line into four equal sections. She made fifths, not fourths.

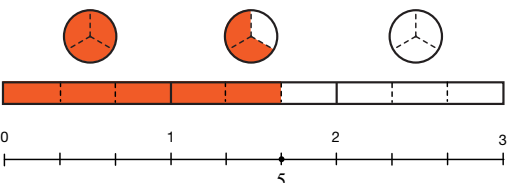
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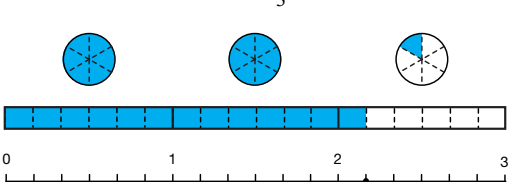
Represent Fractions (SAB pp. 47–48)
Questions A–G

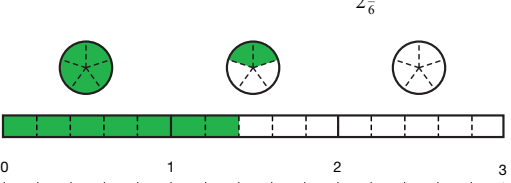
A. 

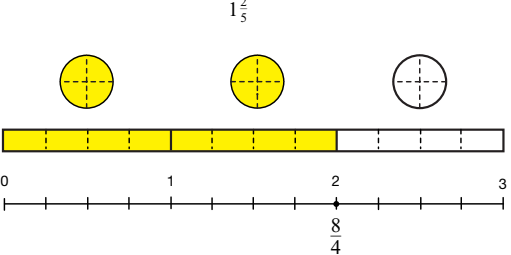
B. 

C. 

D. 

E. 

F. 


G. 

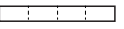
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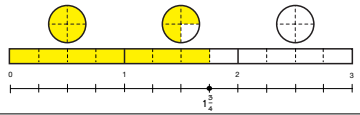
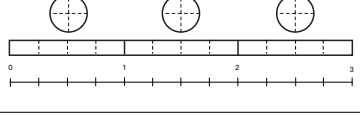
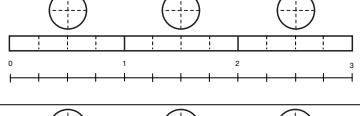
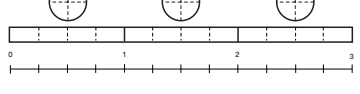
Represent Fractions

Show the given numbers with circles, rectangles, and number lines.

For circles, one circle is the unit whole: 

For rectangles, this size rectangle is the unit whole: 

For number lines, the segment from 0 to 1 is the unit whole: 

Number	Representation
Example $1\frac{3}{4}$	
A. $1\frac{1}{4}$	
B. $\frac{5}{4}$	
C. $2\frac{1}{2}$	

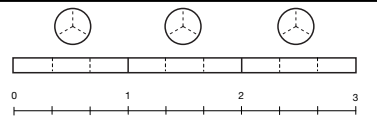
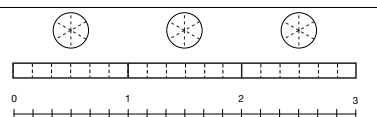
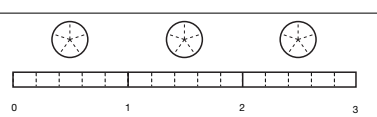
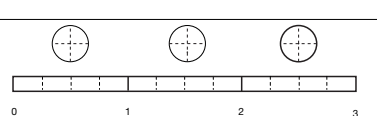
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Fractions on Number Lines

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Name _____ Date _____

Number	Representation
D. $\frac{5}{3}$	
E. $2\frac{1}{6}$	
F. $1\frac{2}{5}$	
G. $\frac{8}{4}$	

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Fractions on Number Lines

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