

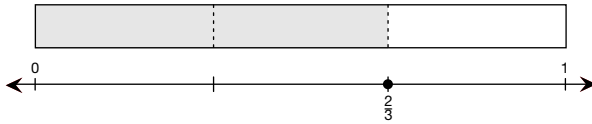
Student Activity Book

Showing Fractions (SG pp. 369–376)

Questions 1–18

1. A. $\frac{1}{3}$, one-third

B.



2. A. 4; $\frac{1}{4}$

B. 3; $\frac{1}{3}$

C. 3; $\frac{1}{3}$

D. 8; $\frac{1}{8}$

E. 2; $\frac{1}{2}$

Name _____ Date _____

Showing Fractions

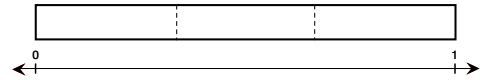
Use fraction circle pieces and *Writing Numbers in Words* from the *Student Guide* Reference section as you answer the questions.

Self-Check: Question 1

1. A. Two aquas is what fraction of a pink?

_____ number _____ words

B. Shade $\frac{2}{3}$ of the fraction strip and label $\frac{2}{3}$ on the number line.



Use the menu and the Self-Check questions to choose practice with showing fraction with model, words, and symbols.

Can I Do This?	Working On It! I could use some extra help.	Getting It! I just need some more practice.	Got It! I'm ready for a challenge.
Show fractions using objects, area models, and drawings.			
Locate fractions on a number line.	★ Q# 2–8, 10, 13–14, 17	● Q# 4–12, 15–17	■ Q# 7–9, 12, 15–18
Use words and numbers to name fractions.			

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Workshop: Fractions

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Name _____ Date _____

★2. Look at the shapes and then fill in the blanks.

A. _____ equal-size parts.
Each part is _____ of the whole.

B. _____ equal-size parts.
Each part is _____ of the whole.

C. _____ equal-size parts.
Each part is _____ of the whole.

D. _____ equal-size parts.
Each part is _____ of the whole.

E. _____ equal-size parts.
Each part is _____ of the whole.

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★3. Luis has a collection of marbles.



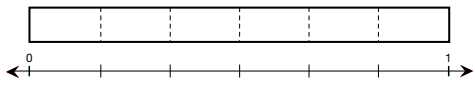
A. What fraction of the marbles are white? _____

B. What fraction are black? _____

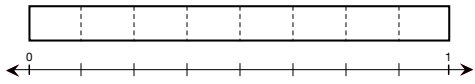
★4. A. Jackie made brownies for the bake sale. Color $\frac{2}{6}$ of Jackie's pan of brownies. B. Color $\frac{2}{6}$ of Jackie's pan of brownies.



★5. Shade $\frac{5}{6}$ of the fraction strip and label $\frac{5}{6}$ on the number line.



★6. Shade $\frac{5}{8}$ of the fraction strip and label $\frac{5}{8}$ on the number line.




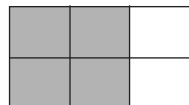
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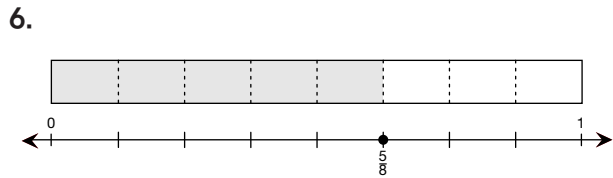
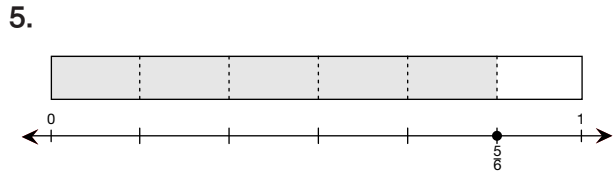
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3. A. $\frac{5}{8}$
B. $\frac{2}{8}$

4. A. 

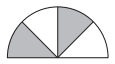
B. 

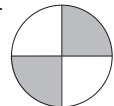


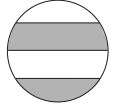
7. Shapes A, B, E, F, H, and I should be circled.


Name _____ Date _____

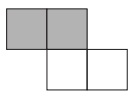
★7. Draw a circle around the shapes that show two-fourths of the shape shaded in.


A. 

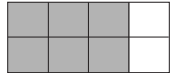
B. 

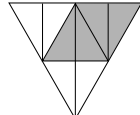
C. 

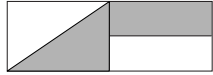
D. 

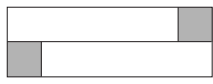
E. 

F. 

G. 

H. 

I. 

J. 

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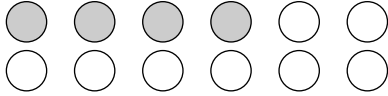
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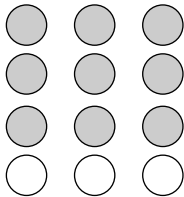
8. The shape in Question 7C does not show $\frac{2}{4}$ because the parts are not equal. The area that is shaded is equal to $\frac{2}{4}$ of the circle though.
9. The shape in Question 7F shows $\frac{4}{8}$ and $\frac{2}{4}$. It depends on how the shape is partitioned. If the shape is partitioned into fourths rather than eighths $\frac{2}{4}$ is shaded.

10. 2

11. 4



12. 9




Name _____ Date _____

★●■8. Did you draw a circle around the shape in Question 7C? Why or why not?

●■9. Moe thinks the shape in Question 7F shows $\frac{4}{8}$ but not $\frac{2}{4}$. Do you agree with Moe? Why or why not?

★●10. If 8 counters are a whole set, how many are in one-fourth of a set?



●11. If 12 counters are a whole set, how many are in $\frac{1}{3}$ of a set? Draw a picture to show how you decided.

●■12. If 12 counters are a whole set, how many are in $\frac{3}{4}$ of a set? Draw a picture to show how you decided.

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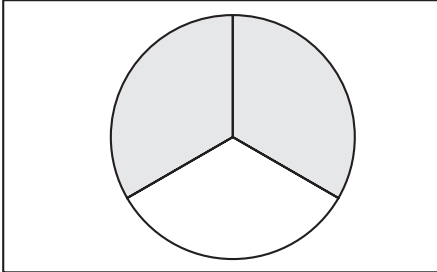
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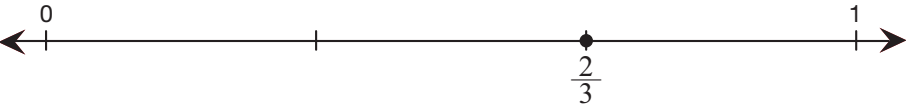
Show the fraction in each box below in four other ways. The red circle is the unit whole.

★13.

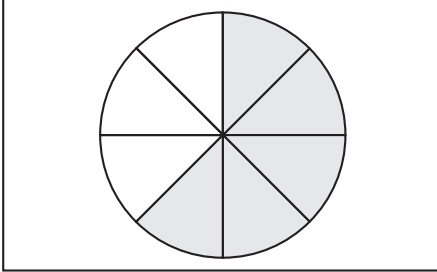
$\frac{2}{3}$	
number	
<u>two-thirds</u>	drawing
words	

one whole fraction strip




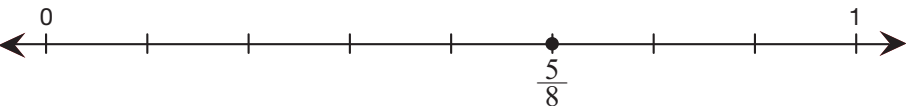


★14.

$\frac{5}{8}$	
number	
<u>five-eighths</u>	drawing
words	

one whole fraction strip





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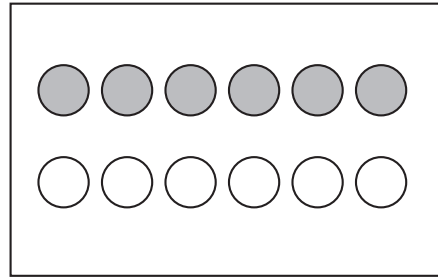
Name _____ Date _____

●■15.

$$\frac{3}{6}$$

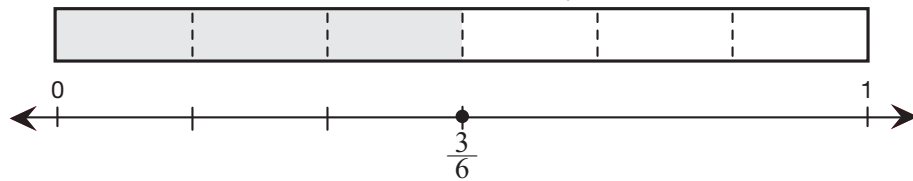
number

three-sixths
words



drawing

one whole fraction strip

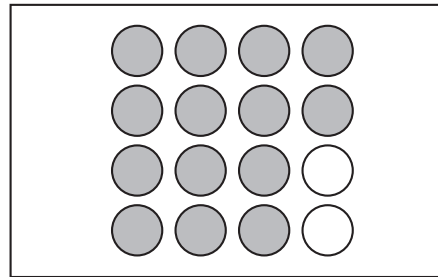


●■16.

$$\frac{7}{8}$$

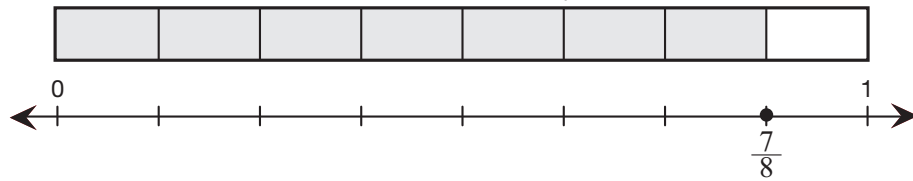
number

seven-eight
words



drawing

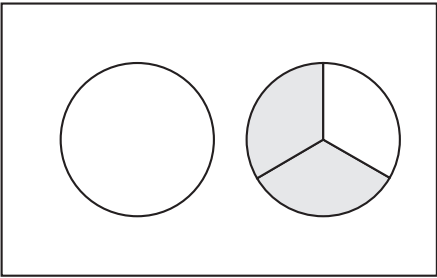
one whole fraction strip



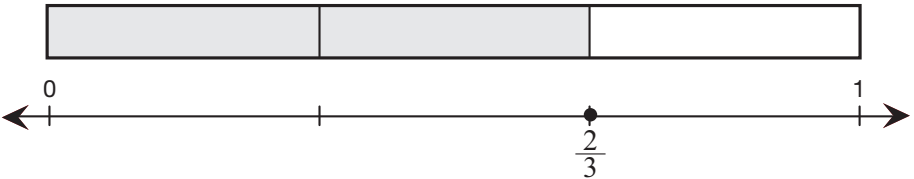
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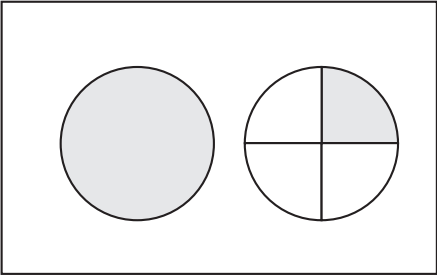
★●■17.

$\frac{2}{3}$	
number	
<u>two-thirds</u>	drawing
words	

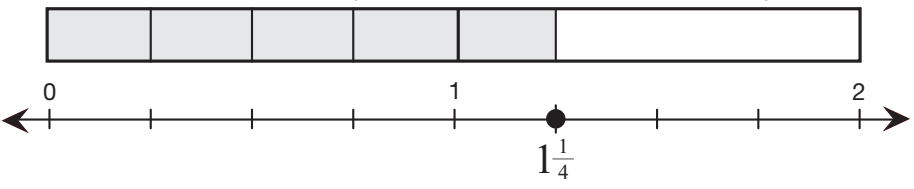
one whole fraction strip



■18.

$1\frac{1}{4}$	
number	
<u>one and one-fourth</u>	drawing
words	

one whole fraction strip one whole fraction strip



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Student Activity Book

Fraction Concepts (SAB pp. 377–384)
Questions 1–12


- Sam and Ben ate the same amount of cake.
Possible responses: I used the fraction circle pieces. $\frac{1}{3}$ of the pink piece is the aqua piece leaving an orange piece. $\frac{1}{2}$ of an orange piece is an aqua piece.
- A. pink
B. yellow
C. blue
D. aqua
- Halves are different sizes when the wholes are different sizes.
- $\frac{1}{4}$ of the red circle is a yellow piece and $\frac{1}{4}$ of the pink piece is the blue piece.
- Fourths are different sizes when the wholes are different sizes.

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Fraction Concepts

✓ Self-Check: Question 1
1. Sam ate $\frac{1}{3}$ of the cake.






Ben ate $\frac{1}{2}$ of the leftover cake.



Who ate the most cake? Show or tell how you decided.

Use the menu and the Self-Check question to choose practice with partitioning fractions.



Can I Do This?	Working On It!  I could use some extra help.	Getting It!  I just need some more practice.	Got It!  I'm ready for a challenge.
Partition shapes by a given unit fraction. Show the unit whole from a fractional part.	* Q# 2, 4, 9, 10A, 11A, 12A	• Q# 6, 8, 10B–C, 11A–B, 12A–B	■ Q# 8, 10C–D, 11B–C, 12B–C
Show that fractional parts of a unit may be different shapes but must be the same size.	* Q# 2–5,9	• Q# 7–8	■ Q# 7–8
Show that the same size fractional parts of different size unit wholes are not equal.			



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

*2. What fraction circle pieces will you use to cover $\frac{1}{2}$ of each piece below?

A.  B. 

C.  D. 

*3. When are halves different sizes?

*4. What fraction circle pieces will cover $\frac{1}{4}$ of each piece below?

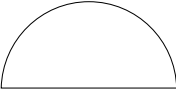
*5. When are fourths different sizes?

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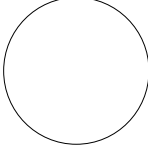
●6. A. Roberto shared a large taco equally with his three brothers. Divide the taco into fourths.



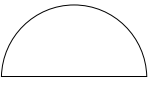
B. Here is a picture of a cake. Divide the cake into eighths.



C. Ana's family ate $\frac{3}{4}$ of a pie. Color $\frac{3}{4}$ of the pie.



D. Luis's family ate $\frac{3}{4}$ of a leftover pie. Color $\frac{3}{4}$ of the leftover pie below.



●7. Look at Questions 6C and 6D. Which family ate more pie? Show or tell how you decided.

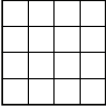
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
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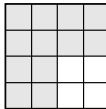
●8. A. Mr. Martin asked Ming and Irma to show $\frac{3}{4}$ on this rectangle. Show $\frac{3}{4}$ on this rectangle.



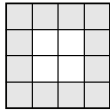
Here is how Ming showed $\frac{3}{4}$.




There are 16 boxes, which is 8×2 . $\frac{1}{4}$ will be 4 boxes. I will shade 4 boxes 3 times.



Here is how Irma showed $\frac{3}{4}$.



There are 16 boxes. $16 \div 4 = 4$. $\frac{1}{4}$ is 4 boxes. $\frac{3}{4}$ is 3×4 boxes = 12 boxes.



B. Who showed $\frac{3}{4}$ on the rectangle—Ming or Irma? How do you know?

C. Why did Ming and Irma both say that $\frac{1}{4}$ is 4 boxes?

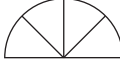
D. Is Ming's $\frac{3}{4}$ the same size as Irma's $\frac{3}{4}$? _____

E. Is Ming's $\frac{3}{4}$ the same shape as Irma's $\frac{3}{4}$? _____



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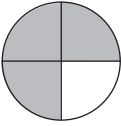
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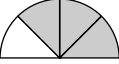
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6. A. 

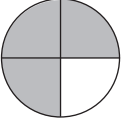
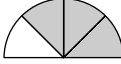
B. Drawing may vary. Two possible responses are:

 or 

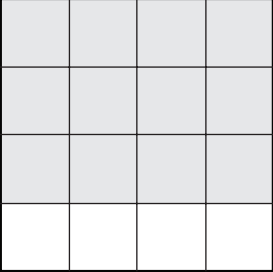
C. 

D. 

7. Ana's family ate more pie.

Ana's family pie Luis's family pie

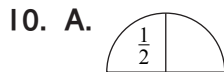
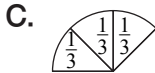
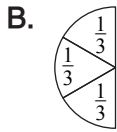
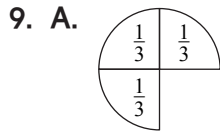
8. A. 

B. They both showed $\frac{3}{4}$ of the rectangle.

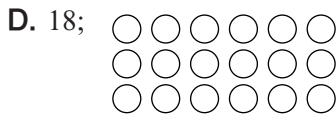
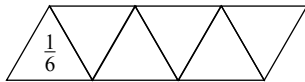
C. To partition 16 boxes into 4 equal parts, $\frac{1}{4}$ looks like 4 boxes.

D. Yes

E. No



B. Drawings may vary. One possible response:



Name _____ Date _____

★9. Professor Peabody drew fractions of shapes. For each shape draw what the whole shape could look like. Use the fraction circle pieces.

A.

B.

C.

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10. Draw a picture to show each whole.

★A. Jason is building a patio. Here is a picture of $\frac{1}{2}$ of the patio.

●B. Professor Peabody drew $\frac{1}{6}$ of a shape.

●C. Here is a picture of Ming's birthday cake after a party. One-fourth was eaten.

■D. Here is a picture of $\frac{2}{3}$ of the students in the class. How many students are in the whole class?

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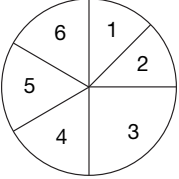
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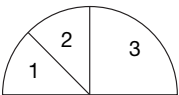
11. Cover the unit whole with the circle pieces as shown in each drawing. For each number, write the color of the piece and fraction of the unit whole.

★●A. The unit whole is the red circle.



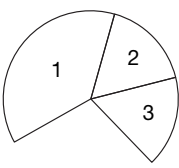
Color	Fraction
1.	
2.	
3.	
4.	
5.	
6.	

●■B. The unit whole is the pink piece.



Color	Fraction
1.	
2.	
3.	

■C. The unit whole is the shape below.



Color	Fraction
1.	
2.	
3.	

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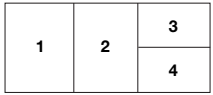
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Name _____ Date _____

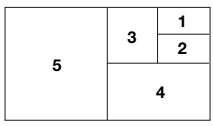
12. For each drawing, give the fraction for each piece.

★●A.



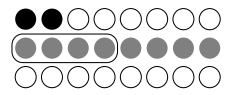
1. _____
2. _____
3. _____
4. _____

●■B.



1. _____
2. _____
3. _____
4. _____
5. _____

■C.



black _____
white _____
circled _____
gray _____

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11. A.

Color	Fraction
1. blue	$\frac{1}{8}$
2. blue	$\frac{1}{8}$
3. yellow	$\frac{1}{4}$
4. aqua	$\frac{1}{6}$
5. aqua	$\frac{1}{6}$
6. aqua	$\frac{1}{6}$

B.

Color	Fraction
1. blue	$\frac{1}{4}$
2. blue	$\frac{1}{4}$
3. yellow	$\frac{1}{2}$

C.

Color	Fraction
1. orange	$\frac{1}{2}$
2. aqua	$\frac{1}{4}$
3. aqua	$\frac{1}{4}$

12. A. 1. $\frac{1}{3}$
2. $\frac{1}{3}$
3. $\frac{1}{6}$
4. $\frac{1}{6}$

B. 1. $\frac{1}{16}$
2. $\frac{1}{16}$
3. $\frac{1}{8}$
4. $\frac{1}{4}$
5. $\frac{1}{2}$

C. black $\frac{2}{24}$ or $\frac{1}{12}$
white $\frac{14}{24}$ or $\frac{7}{12}$
circled $\frac{4}{24}$ or $\frac{1}{6}$
gray $\frac{8}{24}$ or $\frac{1}{3}$

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