

Independent Practice

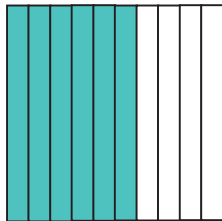
4.2

NAME _____

Module 4 Fractions, Decimals, Percents, and Factors
Lesson 2 Concepts of Decimal Place Value and Fraction and Percent Equivalents

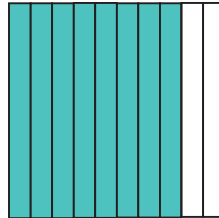
Name the decimal shown by the shaded region. Write it in both decimal and word form.

1.



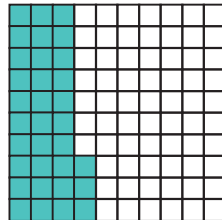
0.6; six tenths

2.



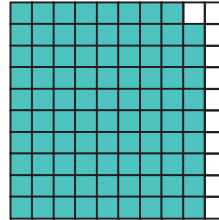
0.8; eight tenths

3.



0.33; thirty-three hundredths

4.



0.89; eighty-nine hundredths

Find the decimal equivalent of each fraction.

5. $\frac{41}{100}$

0.41

6. $\frac{72}{100}$

0.72

7. $\frac{1}{2}$

0.50 or 0.5

8. $\frac{2}{5}$

0.40 or 0.4

Find the percent equivalent of each fraction.

9. $\frac{3}{10}$

30%

10. $\frac{9}{100}$

9%

11. $\frac{3}{4}$

75%

12. $\frac{1}{10}$

10%

Complete each table.

13.

Fraction	Decimal	Percent
	0.36	
$\frac{36}{100}$		36%

14.

Fraction	Decimal	Percent
$\frac{16}{100}$		
	0.16	16%

15.

Fraction	Decimal	Percent
		24%
$\frac{24}{100}$	0.24	

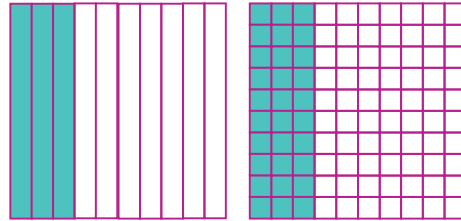
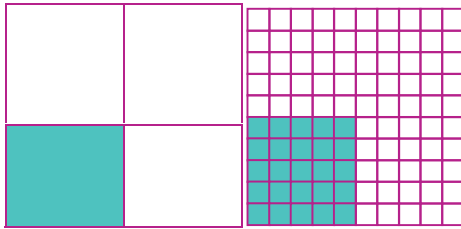
16.

Fraction	Decimal	Percent
$\frac{1}{4}$		
	0.25	25%

Use models to demonstrate the given equivalency.

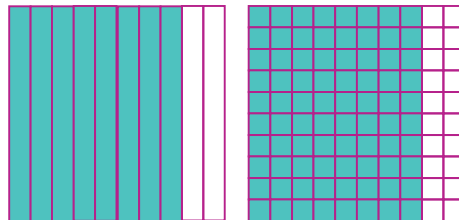
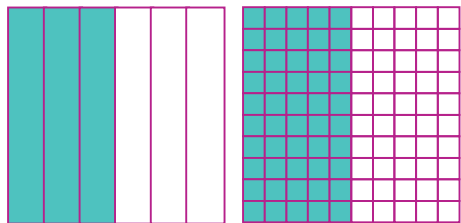
17. $\frac{1}{4} = 0.25$

18. $0.3 = 30\%$



19. $\frac{3}{6} = 50\%$

20. $0.8 = 80\%$



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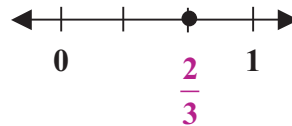
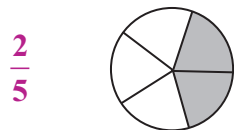
Module 4 **Fractions, Decimals, Percents, and Factors**
Lesson 2 **Concepts of Decimal Place Value and Fraction**
 and Percent Equivalents

Journal

1. Demonstrate with models how $0.1 = \frac{1}{10} = 10\%$. Explain why the numbers are equivalent.
2. Use models to find the decimal and percent equivalent of four fifths. Explain why the numbers are equivalent.
3. If $0.3 = 0.30$, does $\frac{3}{10} = \frac{3}{100}$? Why or why not? Give a real life example.
4. Use models to find which fraction is the largest: $\frac{1}{2}$; $\frac{3}{8}$; $\frac{4}{7}$. Explain your work.

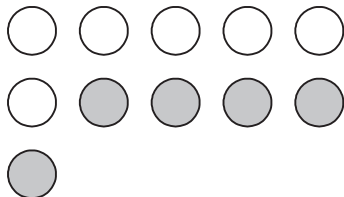
Cumulative Review

1. Name the fraction shown by the shaded region.
2. What fraction does the point on the number line represent?



Express each ratio in three ways.

3. What is the ratio of shaded circles to the entire group of shapes?
4. What is the ratio of capital T's to the entire group of letters?



T T T T t t t t t t t t t

4:12 4 to 12 $\frac{4}{12}$

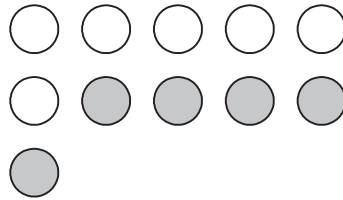
5:11 5 to 11 $\frac{5}{11}$

5. What is the ratio of capital T's to lower case t's?

T T T T t t t t t t t t

4:8 4 to 8 $\frac{4}{8}$

6. What is the ratio of shaded circles to white circles?



5:6 5 to 6 $\frac{5}{6}$

7. What is the ratio of hearts to stars?



9:5 9 to 5 $\frac{9}{5}$

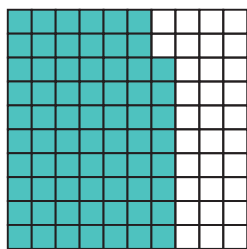
8. What is the ratio of Q's to X's?

X X X X Q Q

2:4 2 to 4 $\frac{2}{4}$

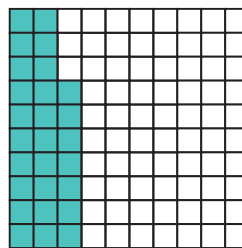
Write the fraction of the model that is shaded, the ratio of shaded squares to total squares, and the percent that is shaded.

- 9.



$\frac{68}{100}$ 68 to 100 68%

- 10.

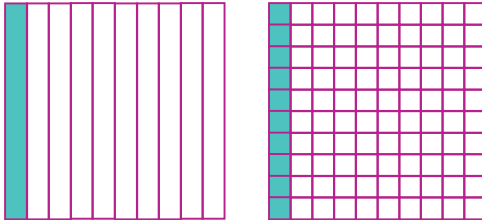


$\frac{27}{100}$ 27 to 100 27%

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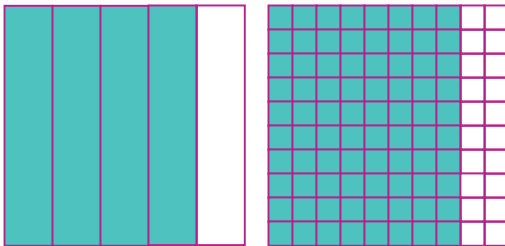
Possible Journal Answers

1.



The portion that is shaded for 0.1 and $\frac{1}{10}$ is one equal part out of 10 parts. The portion shaded for 10% is 10 squares out of 100 squares. There is an equal portion shaded on each model, so $0.1 = \frac{1}{10} = 10\%$.

2.



I made a model of five equal parts and shaded four of them. Then, I made a model of 100 squares, divided them into five parts, and shaded four of the parts. The shaded portions of both models are equal. The decimal equivalent of four fifths is 0.80, and the percent equivalent is 80%.

3. No, three parts out of 10 is a bigger portion than three parts out of 100. If I cut a cake into 10 equal pieces and took three of the pieces, that is more cake than if I cut the cake into 100 equal pieces and took three pieces. The pieces of cake are larger if I cut it into only 10 pieces, so three big pieces of 10-piece cake are more cake than three very small pieces of 100-piece cake. The decimal 0.3 is three-tenths, and 0.30 is thirty hundredths. Those decimals are equal to each other.

4.



I shaded three equal-sized circles to show one out of two, three out of eight, and four out of seven. Four out of seven has more of the circle shaded than the other two. Therefore, four sevenths is the largest fraction.