# Grade 6 Mathematics
Week of December 18 – December 22

Lesson 4.3: Percentages

Lesson Materials
- Lessons for Section 4.3 Percentages
- Learning Guide (This PDF)

Use the link above to open the lessons for this section. Remember: on the lesson page, use the arrow next to the "Table of Contents" at the **top of the page** to move through the lessons. You can also click on the Table of Contents to open the menu so you can jump to a specific lesson page.
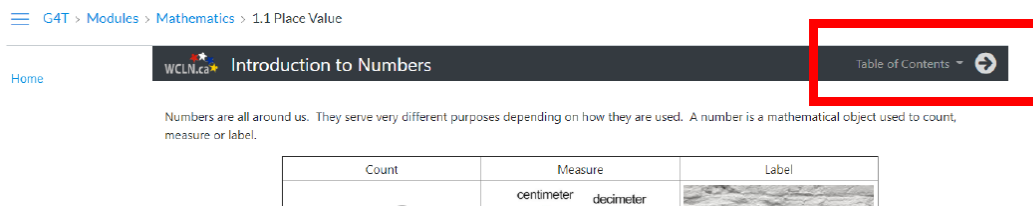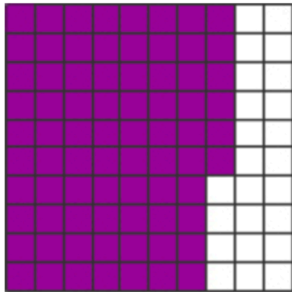

Work through the online lessons for this section. You can work at your own pace or follow the suggested schedule below. Complete the activities in your Learning Guide as you work through the lessons. You can print the Learning Guide, or, copy out the questions on a separate piece of paper. Be sure to try the games and practice quizzes as you make your way through the online lesson book.
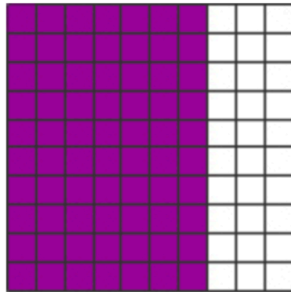
Suggested Lesson Schedule

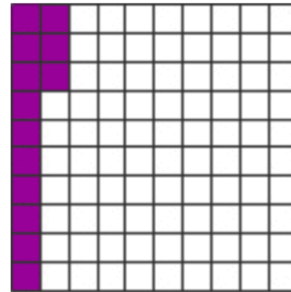| Monday	Thursday
• Introduction • Percentages • LG 4.3 p. 7-8, #1-2 **Tuesday** • Percent to Decimal • Practice • Decimal to Percent • Practice • LG p. 8, #3-4 **Wednesday** • Percents and Fractions • LG p. 9, #5-6	• Simplest Form • Matching • Conversions • Examples • Practice • LG p. 10, #7 **Friday** • Solving Percentage Problems • Percent Problems • Percent Discounts • LG p. 10, #8-11

4.3 PERCENTAGES

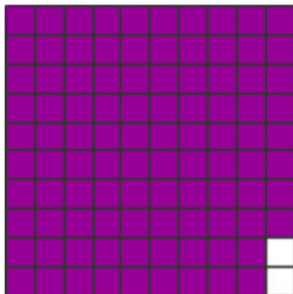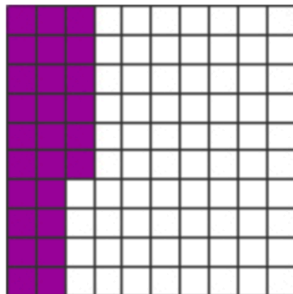1. What percent of each square is shaded
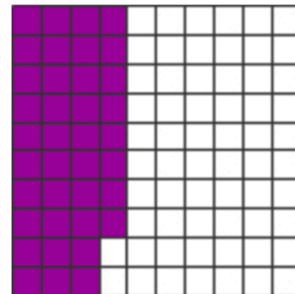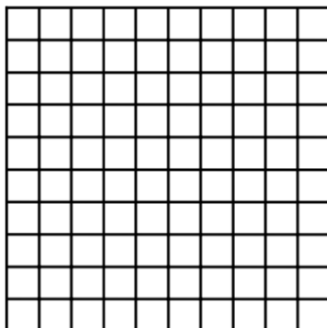
a) _____   b) _____   c) _____
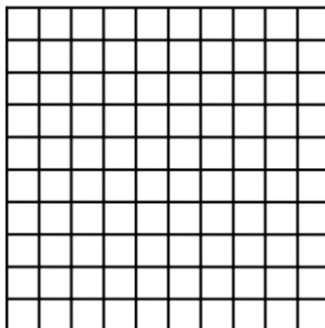
d) _____   e) _____   f) _____

2. Shade the percentage given on the grids

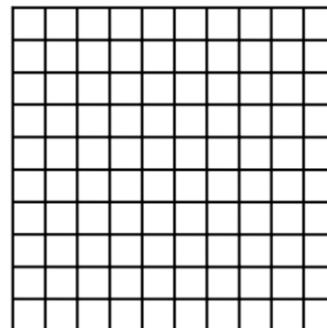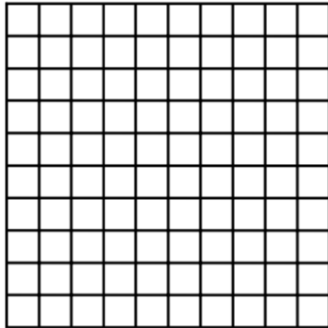a) 20%   b) 47%   c) 99%

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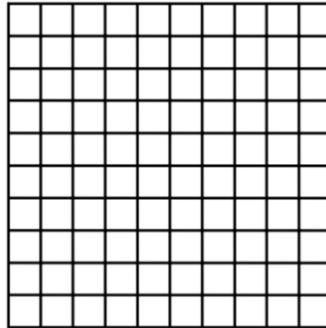
d) 10%   e) 25%   f) 50%
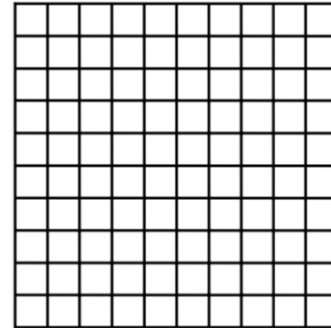
3. Rewrite each percentage as a decimal. *Reminder: To convert percentages to decimals, move the decimal two places to the left. You may need to add zeros at the beginning of a number.*

Ex. 61.3%   c. 3%   f.   100%

0.613

a. 78%   d. 8%   g. 23.8% - challenge

b. 99%   e. 143%   h. 5.14% - challenge

4. Rewrite each decimal as a percentage. *Reminder: To convert decimals to percentages, multiply the decimal by 100 (ie. move the decimal two places to the right.)*

Ex. 0.562   56.2%

a. 0.43 _____   b. 0.98 _____   c. 0.02 _____

d. 0.06 _____   e. 0.5 _____   f. 1.09 _____

g. 0.011 challenge _____   h. 1.342 challenge _____

5. Convert each percentage to a fraction then to a ratio. _Reminder: First, convert each percentage to a fraction over 100, then, simplify the fraction._

	Percentage	Fraction (Over 100)	Fraction (Simplified)	Ratio (Simplified)
Ex.	16%	$\dfrac{16}{100}$	$\dfrac{4}{25}$	$4:25$
a.	42%			
b.	53%			
c.	75%			
d.	8%			
e.	3%			
f.	80%			

6. Convert each fraction to a percentage. _Reminder: First, convert the fraction to an equivalent fraction over 100, then change it into a percentage._

	Ratio	Fraction	Fraction (Over 100)	Percentage
Ex.	$2:5$	$\dfrac{2}{5}$	$\dfrac{40}{100}$	40%
a.		$\dfrac{9}{10}$		
b.		$\dfrac{1}{4}$		
c.		$\dfrac{3}{20}$		
d.		$\dfrac{47}{50}$		
e.		$\dfrac{1}{5}$		
f.		$\dfrac{13}{25}$		

7. Fill in the table. Reduce fractions to simplest terms. State ratio in simplest form

	Percent	Decimal	Fraction	Ratio
Ex.	**75%**	0.75	$\dfrac{75}{100} = \dfrac{3}{4}$	3 : 4
a.		0.09		
b.	65%			
c.			$\dfrac{1}{2}$	
d.			$\dfrac{7}{20}$	
e.	5%			
f.		0.02		

8. The Rockets won 9 games throughout their entire season. Of all their games, this team won 50% of them. Given this, how many games in total did this baseball team play?

9. In Westsyde 80% of families own a beagle. If there are a total of 25 families in this neighbourhood that own a dog, then how many dog owners own a beagle?

10. For one English test, Mike had to answer 20 questions. Of these 20 questions, Mike answered 11 of them correctly. What percent did Mike get on his English test?

11. There are 20 students in a class and 75% of these students passed their History test. How many of these students passed their test?