

# Grade 7 Mathematics

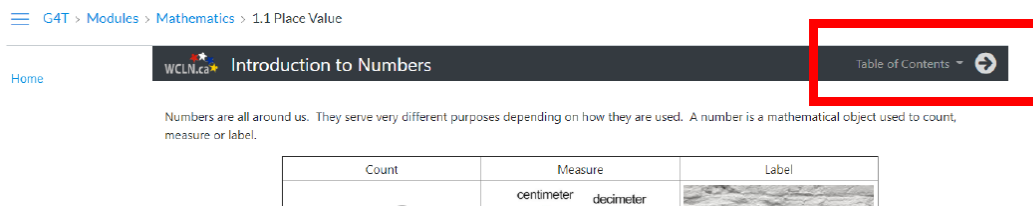
Week of February 1 – February 5

## Lesson 4.4: Percentages

### Lesson Materials

- Lessons for Section [4.4 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

<p><b>Monday</b></p> <ul style="list-style-type: none"><li>• Introduction</li><li>• Percent to Decimal</li><li>• Practice-1</li><li>• Practice-2</li><li>• LG 4.4 p. 10, #1</li></ul> <p><b>Tuesday</b></p> <ul style="list-style-type: none"><li>• Decimal to Percent</li><li>• Practice-1</li><li>• Practice-2</li><li>• LG p. 10, #2</li></ul> <p><b>Wednesday</b></p> <ul style="list-style-type: none"><li>• Percents and Fractions</li><li>• LG p. 10-11, #3-4</li></ul>	<p><b>Thursday</b></p> <ul style="list-style-type: none"><li>• Simplest Form</li><li>• Matching</li><li>• LG p. 11, #5</li></ul> <p><b>Friday</b></p> <ul style="list-style-type: none"><li>• Convert Percents, Decimals, and Fractions</li><li>• Examples</li><li>• Practice</li><li>• LG p. 12, #6</li></ul>
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## 4.4 PERCENTAGES

1. 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%

**0.613**

a. 78%

b. 99%

c. 3%

d. 8%

e. 143%

f. 100%

g. 23.8%

h. 5.14%

2. 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. 0.011

f. 1.097

g. 2.4

h. 0.5

3. Convert each percentage to a fraction. *Reminder: First, convert each percentage to a fraction over 100, then, simplify the fraction.*

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

4. Convert each fraction to a percentage. *Reminder: First, convert the fraction to an equivalent fraction over 100, then change it into a percentage.*

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

5. Fill in the table. Reduce fractions to simplest terms.

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

6. Add a symbol ( $>$ ,  $<$ ,  $=$ ) to make each statement true. *Reminder: Convert terms into the same form in order to compare them.*

Ex.  $0.24 > \frac{4}{20}$

$$0.24 = \frac{24}{100}$$

$$\frac{4}{20} = \frac{20}{100}$$

$$\frac{24}{100} > \frac{20}{100}$$

a.  $0.46 \underline{\hspace{1cm}} \frac{12}{25}$

c.  $\frac{23}{50} \underline{\hspace{1cm}} 0.49$

d.  $7\% \underline{\hspace{1cm}} 0.008$

b.  $\frac{1}{4} \underline{\hspace{1cm}} 23\%$

e.  $43.6\% \underline{\hspace{1cm}} \frac{2}{5}$