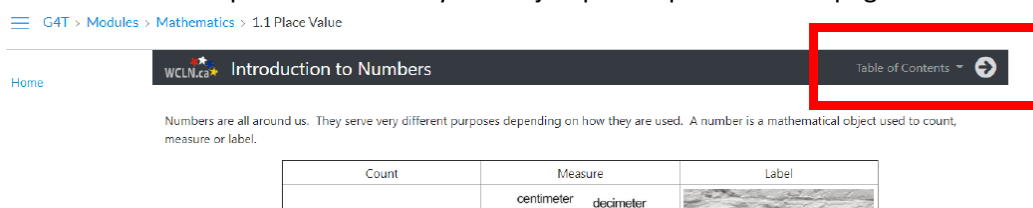# Grade 4 Mathematics
Week of February 22 – February 25

Lesson 5.4: Substitution

Lesson Materials
- Lessons for Section 5.4 Substitution
- Equations 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
• Evaluating • Evaluation Steps	• Challenge Yourself • LG p. 17, #4-5
Tuesday • Practice	**Friday** • Pro-D Day
Wednesday • LG p. 16/17, #1-3	

5.4 SUBSTITUTION

1. Evaluate the following expressions for the variable amounts given. Show substitution and calculations.

a) 5z - d, when d = 4 and z = 3	b) x – r – 6, when x = 10 and r = 2	c) a – 8, when a = 17
d) u – v, when u = 7 and v = 2	e) 7 r v, when r = 5 and v = 2	f) z – 2, when z = 9
g) 9z + r, when z = 3 and r = 2	h) p + x, when p = 7 and x = 5	i) 10 – z, when z = 8

2. John withdraws (takes out) $20 from his bank account.

      a. Write an expression for this situation.

     _____ – _____

      b. Solve the expression if John started with $150 in the bank.

3. Some soccer players divide 40 cookies into smaller groups for a bake sale.

      a. Write an expression for this situation.

     _____ ÷ _____

      b. Solve the expression if the soccer players divide the cookies into 8 groups.

4.   One ink cartridge costs 13 dollars. Write an equation that shows total cost (t) in terms of number of cartridges(n). Once you have written the equation, determine how much 8 ink cartridges would cost?

5. Fred found 73 seashells on the beach, he gave Joan some of his seashells. He has 43 seashell left. Write an equation that shows number of shells he has left (l) in terms of the number given to Joan (n). Once you have written the equations How many seashells did he give to Joan ?