Lesson 3.2 Writing Expressions p.120-121

- **Addition** --------------------------------
- **Subtraction** ---------------------------
- **Multiplication** ----------------------
- **Division** --------------------------------

Examples 1-

Writing Numerical Expressions

   a. 8 fewer than 21

   b. The product of 30 and 9

Example 2-

Writing Algebraic Expressions

   a. 14 more than a number x

   b. A number y minus 75

   c. The quotient of 3 and a number z

On Your Own: p.120, #1-6

   d. 25 less than a number b

Example 3-

Writing an Algebraic Expression

The length of Interstate 90 from the West Coast to the East Coast is 153.5 miles more than 2 times the length of Interstate 15 from southern California to northern Montana. Let m be the length of Interstate 15. Which expression can you use to represent the length of Interstate 90?

A) $2m + 153.5$

B) $2M - 153.5$

C) $153.5 - 2m$

D) $153.5m + 2$

Example 4-

Real-Life Application

You plant a cypress tree that is 10 inches tall. Each year, its height increases by 15 inches.

a. Make a table that shows the height of the tree for 4 years.

b. What is the height after 9 years?

On Your Own: p.121, #7-8