## 3.2 WRITING EXPRESSIONS

***See the notes from 1.1 Whole Number Operations for other words that are used for the four main operations in math-> ADDITION, SUBTRACTION, MULTIPLICATION, DIVISION.	
EXAMPLE 1 Write the phrase as an expression.  1) 8 fewer than 21  2) the product of 30 and	
51-8 30×0 or (30)	9 7+14
4) a number y minus 75 5) the quotient of 3 and a	number z 6) the sum of 18 and 35
4-75 3:zor 3	18+35
7) 6 times 50 8) 25 less than a number	
6(50) or 6.50 b-25	x ÷ 4 ×
10) the total of a number t and 11  11) 100 decreased by a number k  10 e - k	
EXAMPLE 2 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) 153.5 + 2	
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.  Then write an expression for the height after t years.	
Year (t) Height (inches)	Evaluate 10+15+ whent=9
$\frac{2}{3} \left  \frac{10 + 15(2) = 40}{10 + 15(3) = 55} \right $ $\frac{4}{10 + 15(4) = 76}$	10+15(9) After 9 years 10+135 the height wil