

Ms. Wang  
Review Chapter 6 and Chapter 7.1 & 7.2

Name \_\_\_\_\_  
Date \_\_\_\_\_ Class \_\_\_\_\_

**A. Write an expression to match each phrase.**

1. four times a number, decreased by twenty
2. Eight less than a number
3. Eight more than a number
4. the product of three and a number  $x$ , divided by eight

**B. Solve the following equations to find the value of  $n$**

a)  $n + 7 = 19$

b)  $n - 7 = 20$

c)  $3n = 18$

d)  $-5(n + 3) = 50$

e)  $3(n - 6) + 16 = 10$

f)  $3(n + 4) + 17 = 10$

**C. Solve each inequality and graph its solution.**

a)  $10 + m < 12$

b)  $-4 - n > 10$

**D. Multiple Choices**

a) The length of Interstate 90 from the West Coast to the East Coast is 818.2 miles less than 2 times the length of Interstate 95 from southern Florida to northeast Maine. Let  $m$  be the length of Interstate 95. Which expression can you use to represent the length of Interstate 90?

A  $2m + 818.2$

B  $818.2 - 2m$

C  $2m - 818.2$

D  $818.2m + 2$

b) From question a, when  $m = 1924$  miles, what is the length of Interstate 90? (You can use the calculator)

c) Which expression is not equivalent to  $81x + 54$ ?

A  $27(3x + 2)$

B  $3(27x + 18)$

C  $9(9x + 6)$

D  $6(13x + 9)$