

Ms. Wang  
Spring Break Assignment

Name \_\_\_\_\_

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

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

1. four times a number, decreased by six
2. the product of two and a number  $x$ , divided by five
3. seven less than a number  $n$
4. the quotient of four and  $e$
5. the quotient of 20 and  $x$ , increased by seven
6. the difference of 16 and a number, divided by 2

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

a)  $x + 3 = 9$

b)  $x - 7 = 20$

c)  $2x = 18$

d)  $8x = 8$

**C. Find the value of x in the following equations.**

a)  $3x - 1 = 13$

b)  $4x + 3 = 22$

c)  $-6(x + 2) = 38$

d)  $2(x - 5) + 10 = 9$

**D. Solve these equations:**

a)  $4x + 1 = 2x + 7$

b)  $3x + 5 = x + 15$

c)  $6x + 7 = 5x + 13$

d)  $10x - 6 = 7x + 9$

**E. Establish a variable, write an inequality to represent the scenario, and solve. Write a complete sentence to describe your solution.**

A taxi charges a flat rate of \$1.75, plus an additional \$0.65 per mile. If Erica has at most \$10 to spend on the cab ride, how far could she travel?

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

a)  $24 + m < 10 - 4$

b)  $-n + 2 < 50 - 39$