Multi-Step Word Problems Guided Notes

1) Alex needs to rent a moving truck. Suppose Company A charges a rate of $40 per day and Company B charges $60 fee plus $20 per day. For what number of days is the cost the same?

2)

Three times a number minus 8 is equal to 5 times the same number plus 10. What is the number?

A. ⁻9

B. 1

C. 9

3)

Emily is 4 years older than Grace. When their ages are added together, they equal 26. How old is Emily?

A. 13 years old

B. 15 years old

C. 17 years old

4) Four more than twice a number is two less than three times the number. Find the number.

5)

The table below shows the models for the cost, in dollars, for renting a car for x miles from two different rental companies. At what number of miles will the cost be the same?

Company a	1.25x + 50
Company b	1.3x + 40

6) Three less than twice a number is three times the sum of one and the number. What is the number?

7)

A telephone company charges a monthly fee of $24 for 100 minutes of long distance service. The customer must then pay 7 cents per additional minute over 100. Todd's phone bill for October was $26.38, not including taxes. How many total minutes of long distance did Todd use in October?

A   34

B.   66

C.   134

D.   377

8) Eight more than twice a number is four times the difference between five and the number. What is the number?

9) Sixteen is fourteen less than the product of a number and five. What is the number?

10)

Two times a number plus one equals four times the same number minus five. What is the number?

A   ⁻3

B.   ⁻1

C.   3

11)   Suppose your club is selling candles to raise money. It costs $100 to rent a booth from which to sell the candles. If the candles cost your club $1 each and are sold for $5 each, how many candles must be sold to equal your booth rent?