Math 7 Integers Final Practice 2   Student Name: _KEY_   Date:_____

Directions: Answer the following questions carefully using first reading the question, writing the correct

A. Solve the following showing **all** work.(1 mark each, total 12 marks)

1. (-2)(3)= (multiply) -6

2. 1 + +3 = 4

3. (-2) (-3) = 6
   (neg x neg) = +

4. 3 + -2= 1

5. (-2)(2)(-2)=
   $(-4)(-2) = 8$

6. -24/3 =

7. -27/9 - 11 =
   $= -3 - 11 = -14$

8. -3 + 2 + 2 =
   $-3 + 4 = 1$

9. -3(24/12 + 1) =
   $-3 \times (2 + 1)$
   $-3 \times 3 = -9$

10. 1 - 15 =
    $1 - 15 = -14$

11. 15 - 2 + 3(2+ - 2) =
    $13 + 3(0) =$
    $13 + 0 = 13$

12. (5 + -2)(10+ - 3 - -5 + 2) + 3 =
    $3 \times (-7 + 5 + 2) + 3$
    $3 \times 14 + 3$
    $42 + 3 = 45$

B. Word Problems: Read each question carefully, then solve showing **all** work.
(2 marks each, total 16 marks)

1. It is 10° Celsius outside, but will drop 16° Celsius during the night. What will the night temperature be?
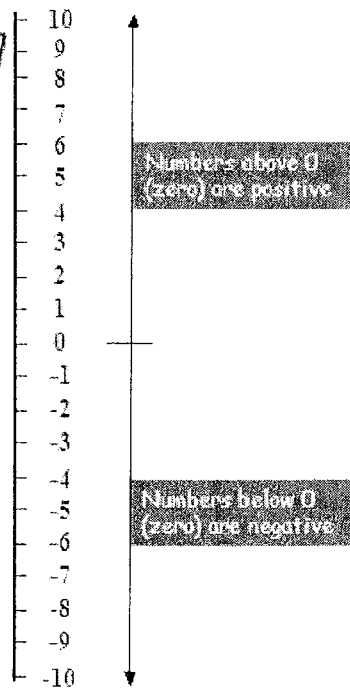 $10 - 16 = -6$

2. Ava had 25 dollars left in her bank account. If she overdraws her account and the account balance is now -35 dollars, how much did she spend that day?
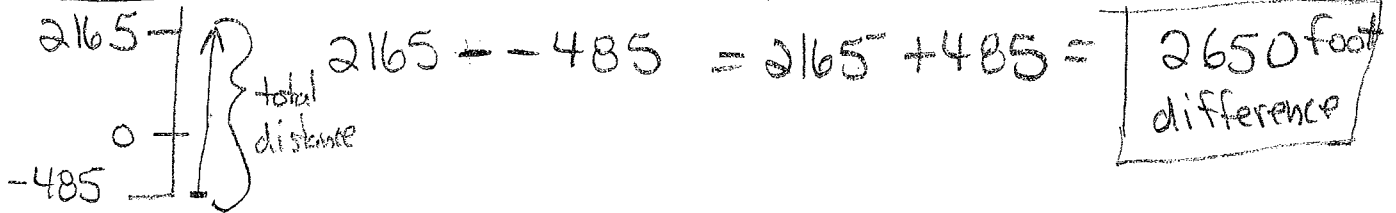 $25 - x = -35$
   $x = -60$
   She spent $60

3. Spencer reported that the coldest day he remembers was in 2004, when it was 4 times colder than today's temperature of -5°C. What was the temperature in 2004?
   $-5 \times 4 = -20°C$

10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10

Numbers above 0 (zero) are positive

Numbers below 0 (zero) are negative

4. The elevation of Mt. Peter in Kamloops is **2165 feet.** The elevation of the Dead Sea is -485 feet. What is the difference in the elevation between Mt. Peter and the Dead Sea?

$$2165 - -485 = 2165 + 485 = \boxed{2650 \text{ foot difference}}$$

(number line diagram: 2165 top, 0 middle, -485 bottom, bracket labeled "total distance")

5. Breanne has $50 to spend, but the Mario game she wants costs $72. How much will she have to borrow in order to buy the Mario game.

$$\$72 - \$50 = \$22 \qquad \text{She will borrow } \$22$$

or

$$50 + x = 72 \qquad \boxed{x = 22}$$

6. Maloney opens a lemonade stand, but instead of making money, he lost $17 each day for three days. What was his total loss?

$$-17 \times 3 = -51 \quad \text{neg is a loss.}$$

$$\boxed{\text{He lost } \$51 \text{ in total}}$$

7. After investing money into Disneyland stocks, Chaz lost a total of $225. Tyler, who bought the same stock, lost 5 times less than Chaz. How much money did Tyler lose in total?

$$-225 \div 5 = \underline{-45} \qquad \underline{\text{Tyler lost } \$45}$$

$$\text{neg is a loss!}$$

8. Alexandra's mom lent her $180 for a new 3DS. Alexandra works as a babysitter on weekends for $15 per hour, how many hours will Alexandra have to babysit, to fully pay her mom back?

$$180 \div 15 = x$$

or

$$\frac{180}{15} = x$$

or

$$15x = 180 \qquad \boxed{x = 12 \text{ hours}}$$

$$\frac{15x}{15} = \frac{180}{15}$$