

## Today's Plan:

**Learning Target (standard):** I will solve simple algebraic equations and evaluate expressions. I will translate sentences into algebraic form.

**Students will:** Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

**Teacher will:** Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

**Assessment:** Board work, homework check and homework assignment

**Differentiation:** Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.

ANSWER KEY

#2

### BELL RINGER

1.) Evaluate  $k + 3$  for  $k = 45$ . 75

2.) Evaluate  $2c^3$  for  $c = 3$ . 54

3.) Add  $\frac{1}{4} + \frac{5}{8}$ .  $\frac{7}{8}$

Warm-Up Complete on the back of your bell ringer.

Evaluate each expression.

1)  $(-1) - (-3) + (-3)$   
 $-1 + 3 - 3$   
 $2 - 3$   
 $-1$

2)  $3 + (-3) + 7$   
 $3 - 3 + 7$   
 $0 + 7$   
 $7$

3)  $6 + (-8) + (-1)$   
 $6 - 8 - 1$   
 $-2 - 1$   
 $-3$

4)  $(-8) + (-3) - (-2)$   
 $-8 - 3 + 2$   
 $-11 + 2$   
 $-9$

5)  $(-4) - 1 - (-3)$   
 $-4 - 1 + 3$   
 $-5 + 3$   
 $-2$

Find each product.

6)  $(-3)(2)$

7)  $(-8)(-3)$

8)  $2 \cdot -10$

9)  $-4 \cdot 6$

Solve each equation.

10)  $48 = 12r$


11)  $-260 = 20n$

12)  $-1 = b - 17$

13)  $n - 3 = -15$

14)  $-10 = 3x + 7x$

15)  $8a - 2a = 24$



Evaluate each expression.

1)  $(-4) - 2 - (-5)$   
 $-4 - 2 + 5$   
 $-6 + 5$   
 $-1$

2)  $(-1) + 7 + 1$

3)  $3 + (-6) + (-6)$

4)  $(-7) - 7 - 4$   
 $-7 - 7 - 4$   
 $-14 - 4$   
 $-18$

Find each product.

5)  $(-8)(-10)$

6)  $(-5)(8)$

7)  $2 \cdot -7$

8)  $-2 \cdot 4$

Solve each equation.

9)  $0 = a - 17$

10)  $-8 = n + 3$   
 $-3 - 3$   
 $-11 = n$

11)  $1 = 9 + x$

12)  $v - 6 = -2$   
 $+6 + 6$   
 $v = 4$

13)  $15 = -x - 5 - 3x$   
 $15 = -4x - 5$   
 $+5 +5$   
 $20 = -4x$   
 $\frac{20}{-4} = \frac{-4x}{-4}$   
 $-5 = x$

14)  $-5x - 3x = -16$   
 $-8x = -16$   
 $\frac{-8x}{-8} = \frac{-16}{-8}$   
 $x = 2$

**Translating Words into Symbols:****Addition:**

- sum
- increased by
- more than
- plus
- combined
- together
- greater than
- add
- pair up
- deposit

**Translating Words into Symbols:****Subtraction:**

- difference
- decreased by
- less than
- minus
- take away
- subtract
- withdraw

**Translating Words into Symbols:****Multiplication:**

- product
- of
- times
- multiply
- double, triple,...
- square, cube,...

**Division:**

- quotient
- divided by
- equal parts
- divide
- over (9 over 2)  $\frac{9}{2}$

**Translate into symbols.**

- Five more than a number

$$x+5$$

- A number divided by 4

$$x/4$$

- The sum of 3 and a number

$$3+x$$

Translate into symbols.

- The quotient of a number and 3

$$x/3$$

- Nine times a number

$$9x$$

- Four more than half a number

$$\frac{1}{2}x+4$$

Translate into symbols.

- Ten less than one half a number

$$\frac{1}{2}x-10$$

- Three plus the product of a number and 5

$$3 + 5x$$

- Four more than three times a number

$$3x + 4$$

Assignment:

Translating Expressions

#1-20