Date_____   Lesson 3-1   (pg.   )

Writing an Expression

Expression: _____

_____

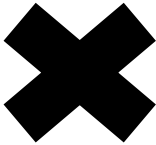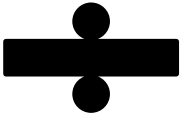Examples: 2+5   a + b   3 + q

Examples (make up your own examples): 1.   2.   3.

SYMBOLS	✚	▬	✖	➗
Words				
Flip Phrases				

Flip Phrase → _____

General Rule:

Ex: twenty increased by k.   Ex: n divided by three

#1 Exception

Exc #1: with multiplication and variables
 	
   a)
   b)
 	
Example: The product of k and nine.

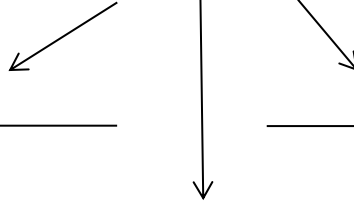| #2 Exception |
|---|
| Exc #2: Flip Phrases

Example: Fourteen greater than a number p.

Example: two less than some number |

WARM UP (Day 2)

1. Six and the sum of k

2. The difference of 10 and m

3. K subtracted from 3

4. Twelve greater than b

Equation: _____

→ Has " _____ " sign

$$3 \times 4 = 20 - 8$$

_____   _____

_____

1. Four more than x would be ten

2. Forty-eight divided by a number is eleven

3. The product of n and six is nine

4. Twice as many points as Bob would be 18 points

5. Three more than eight times as many trees is seventy-five trees

WARM UP (Day 3)

1. Three less than p is equal to forty-two

2. Seven more than a number is sixteen

3. The sum of x and nine is forty-eight

4. Z less than twenty-five is thirty

| Date_____ | Lesson 3-1 Continue | (pg.   ) |

Write the expression to go with the verbal phrase

Example 1; The difference of a number and 17

Example 2: Twice the number p.

Example 3: g more than 17

---

*Equation:*_____

Example 4: A number increased by two is one hundred.

Example 5: Three times as many apples as Louie would be twenty.

Example 6: Three more than eight times as many cars is nineteen.

Addition & Subtraction Equations

"My Algebraic Thinking"

1. _____

_____

2. _____

_____

Example: $c + 3 = 5$	Example: $4 + z = 5$
Example: $a + 8 = -22$	Example: $-12 + w = -9$
Example: $7 = c - 5$	Example: $m + 7 = -13$

5

WARM UP (Day 5)

1. $-33 + f = 1$ 2. $-14 = c + 12$

Date_____	Lesson 3-2 Continue	(pg.)
	Addition & Subtraction Equations	

1. $x - 7 = 14$ 4. $y - (-11) = 2$

2. $15 = 6 + z$ 5. $-73 = h - 532$

3. $12 = s - 4$ 6. $g + -47 = -24$

WARM UP (Day 6)

1. -3 + t = -1   2. 10 = c + 12

Date_____	Lesson 3-3	(pg.)
	Multiplication Equations	

_____

Example: 8e = 32

_____

_____

_____

_____

Example: -11x = -44   Example: 3x = 9

Example: 45 = -9y   Example: 12b = -48

Goal:

Date_____	Lesson 5-6 **(Day 7)** (pg.)
	Division Equations

** Multiplicative Inverse --------- > _____

     ---- Flip _____ and _____

Find the Multiplicative Inverse:

1. $\frac{5}{2}$ 2. $5\frac{4}{5}$ 3. 6

Solve the equations:

Example 1: $\frac{a}{8} = 5$

Example 2: $-3 = \dfrac{w}{-5}$

Example 3: $\dfrac{3}{7}g = 9$

WARM UP (Day 8) – Multiplication Equations

1. -3t = -9

2. 63 = 9c

WARM UP – Division Equations

1. $\dfrac{2}{7}t = 4$

2. $63 = \dfrac{1}{9}c$

Date_____	Lesson 3-5	(pg.)
	Two – Step Equations	

Example: 2f + 1 = 9

To "Unwrap" the variable

_____

_____

_____

4k − 2 = 14	-4m + 1 = 13
$-\dfrac{b}{5} - 3 = 4$	$\dfrac{2}{3}p + 3 = 11$
-12 + k = -5	$\dfrac{3}{7}c - 5 = 13$

Warm up (Day 9)

1. $-\dfrac{c}{2} + 2 = 4$
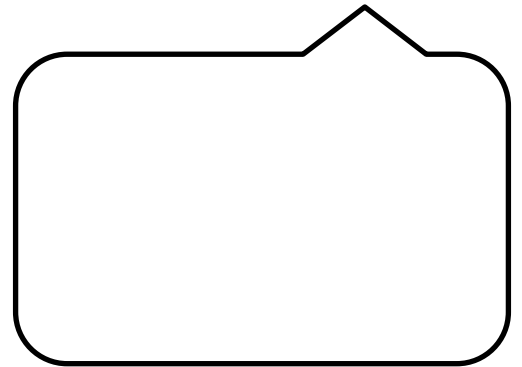
2. $-2 + x = -8$

Date_____   **Lesson 3-5**   (pg.   )

Functions and Graphs
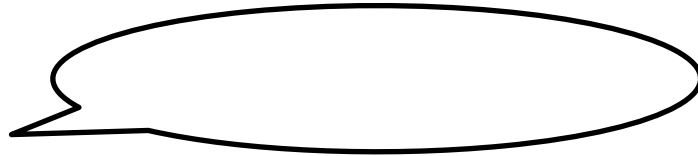
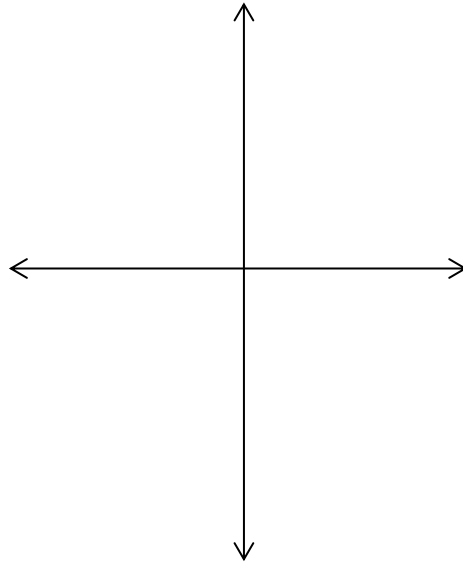Function: a _____ between the _____ and _____ (_____).

_____ Example: y = x + 2   _____

x		y

Q: What do you call (x.y)?

    A: Examples:

Example: Graph the equation: y = -2x

x		y

- Create a _____.

- _____ the ordered pairs produced from the function table.
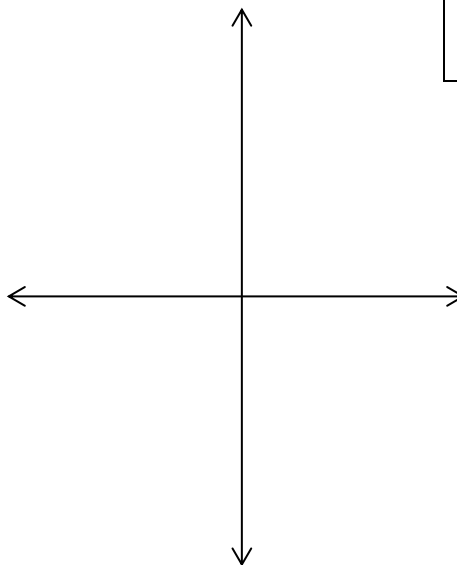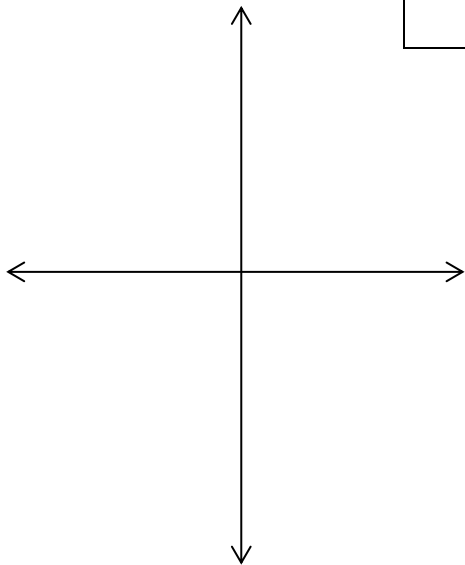
- _____ the points to form a straight line

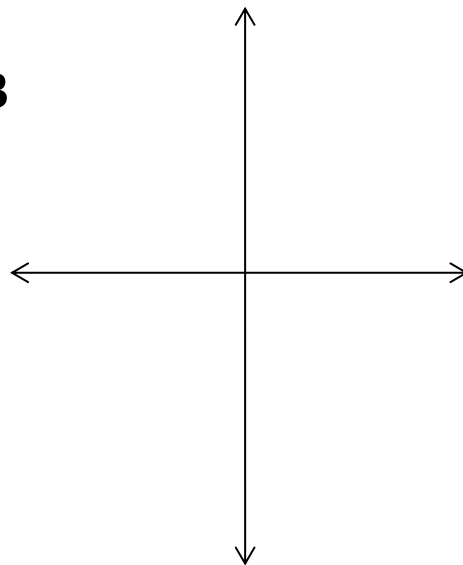## **WARM UP (Day 10)** *Graph the equation*

1. -3 + x = y

x		y

2. -2x + 1 = y

x		y

x		y

Example 1: y = x - 3

Example 2: y = -3x

x		y
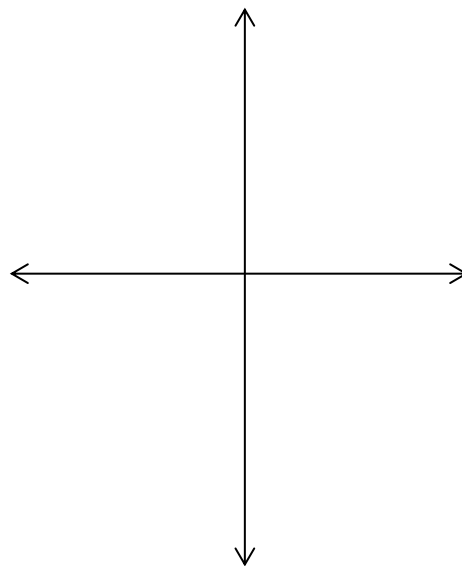
Example 3: y = -2x - 2

x		y

Example 4: y = ½ x + 2

x		y

The End☺