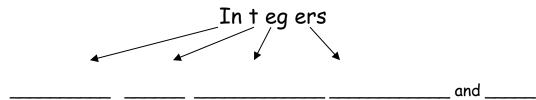
Name each set of real numbers as all natural numbers, all integers, or neither.

7. 
$$1, \frac{1}{2}, 3, 5$$

14, 12, 110, 6 12. 
$$\frac{1}{2}$$
, .335,  $\sqrt{37}$ , 0

Fill in the blanks to spell out the helpful integer phrase. 13.



- 14. When you teach a child how to count, which set of numbers do you use?
- 15. Which set of numbers includes every number in the world? \_\_\_\_\_

#### \* Review

**16**. 
$$-3 \times -9 =$$

17. 
$$\frac{1}{4} \div \frac{3}{5} =$$

17. 
$$\frac{1}{4} \div \frac{3}{5} =$$
 18.  $10 + x = -19$  19.  $\frac{49}{7} = x$ 

19. 
$$\frac{49}{7} = x$$

**20**. 
$$3a = 99$$

21. 
$$\frac{1}{2} \cdot \frac{1}{2} =$$
 22.  $\sqrt{121} =$  23.  $\frac{1}{2}x = 32$ 

22. 
$$\sqrt{121} =$$

**23**. 
$$\frac{1}{2}x = 32$$

25. 
$$3\frac{4}{7} \times 4\frac{3}{5} =$$

**25.** 
$$3\frac{4}{7} \times 4\frac{3}{5} =$$
 **26.**  $4^2 + (3-1) + 5(8+2) =$ 

Name each real number as an integer or a natural number and then say whether it is rational or irrational. The first one is done for you.

- 17 A rational, natural number and an integer.
- -17 1.
- 2. .34
- 3. .33
- 4.  $\sqrt{4}$
- $\sqrt{2}$ 5.
- -7/8 6.
- 7. 0
- 8.  $\pi$
- 9. 100
- 10. 1/3

Review pre-algebra by solving the following.

12. 
$$\frac{1}{2}a = 5$$

15. 
$$\sqrt{36} =$$

14. 
$$-8^2 =$$
 15.  $\sqrt{36} =$  16.  $x - 5 = -10$ 

17. 
$$8(6+3) =$$
 18.  $(3+3) - 2^2 + (4 \times 6)(\sqrt{4}) =$ 

Fill in the blanks with the correct order of operations (PEMDAS).

19. \_\_\_\_\_, Exponents, \_\_\_\_\_, Add, \_\_\_\_

20. 
$$-\frac{5}{9} \div \frac{5}{6} =$$

21. 
$$\frac{7}{12} \times -\frac{8}{11} =$$

20. 
$$-\frac{5}{9} \div \frac{5}{6} =$$
 21.  $\frac{7}{12} \times -\frac{8}{11} =$  22.  $2\frac{7}{9} + 4\frac{4}{27} =$ 

Name the variable in each problem.

Name the coefficient of y in each problem.

Look at this problem then answer the following questions about it.



- Is the coefficient of b an integer? 11.
- Is the coefficient of b a natural number? \_\_\_\_\_ 12.
- Is the coefficient of b an irrational number? 13.
- Is the number without a variable a rational number? \_\_\_\_\_ 14.
- What is the variable? 15.

Review.

16. 
$$-\frac{4}{7} \times \frac{4}{7} =$$

17. 
$$-\frac{4}{7} \div \frac{4}{7} =$$

16. 
$$-\frac{4}{7} \times \frac{4}{7} =$$
 17.  $-\frac{4}{7} \div \frac{4}{7} =$  18.  $-\frac{4}{7} - \frac{4}{7} =$ 

Name Do	ate
---------	-----

Name each of the following as either an expression or a term.

- 1. 4y
- 2. abc
- 3. 12ab<sup>2</sup>
- 4. 3a + 4b
- 5. 3a(5 + 2)
- 6.  $6y^2 + 8$
- 7. 1/2ab(3a)
- 8. 4 + 3xyz
- 9. 9a
- 10.  $d\pi$

Fill in the blanks with a word from your list that matches the description.

11.\_\_\_\_\_ A number set that includes all negative and positive whole numbers including zero.

- 12.\_\_\_\_\_ The set of numbers that we use to count.
- 13.\_\_\_\_\_ The set of numbers that contain every number.
- 14.\_\_\_\_\_ The type of numbers that can be written as a fraction.
- 15.\_\_\_\_\_ The type of numbers that cannot be written as a fraction.
- 16.\_\_\_\_\_ Terms hooked together with a plus or minus sign.
- 17. Are there any like terms in the problem below? If so, what are they?  $7xy + abc + 4xy + 5abc + 7xy^2 =$

Name\_\_\_\_\_\_ Date \_\_\_\_\_

# Worksheet 5

Separate the following terms into their factors. The first one is done for you.

<u>Teri</u>	n/Expression	Fa	ctors		
1.	7y <sup>3</sup>	7	У	У	У
2.	7y <sup>3</sup> 3xy <sup>2</sup>		•	•	•
3.	5x				
4.	$a^4$				
5.	11xy²z				
6.	<b>3</b> <sup>3</sup>				
7.	7 x 2				
8.	8 + 5				
9.	3a				
10.	$21a^3b^2$				
11.	(3 + 2)(4 + b)				
12.	10 <sup>2</sup>				
13.	3(a + b)				
14.	a(2 + a)				
15.	ab				

Solve the following problems.

23. 
$$|7| \times |-8| =$$
 24.  $|-4| \times |4| =$ 

#### **Chapter 1 Review Test**

Name each number as either a natural number, an integer, both or neither.

3. 
$$\frac{1}{5}$$

4. 
$$-\frac{1}{5}$$

Name each number as rational or irrational.

7. 
$$\sqrt{49}$$

8. 
$$\sqrt{2}$$

Name the variable and the coefficient of each term.

13. 
$$10x^2$$
 14.  $\frac{5}{8}$  m

15. 
$$\pi r^2$$

Name each of the following as either a term or an expression.

17. 
$$8a(3y)$$
 18.  $\sqrt{9} + \sqrt{7}$  19.  $6a + 12y$ 

Look at the expression below. Circle all like terms.

21. 
$$3a^2b^2 + 7ab - a^2b^2 + 4ab^2 - 7a - 6a^2b^2 + 5a^2b + 9a^2b^2c =$$

List all the factors of the following terms.

23. 
$$7y^2$$
 24. 11abc 25.  $(5a + 3)(2a + 4)$  26.  $(a + b)^2$ 

26. 
$$(a + b)^2$$

Solve the following.