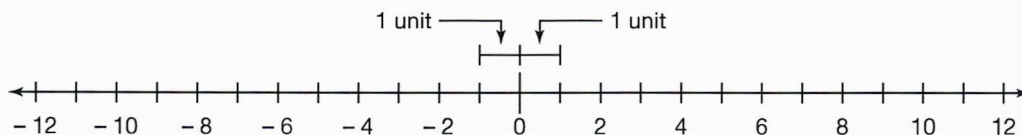


Name _____

Patterns in Algebra

The absolute value of a number is the number of units the number is from zero. The absolute value of zero is zero. The absolute value of -3 can be written $|-3|$.



On the number line, -1 is 1 unit from zero, so the absolute value of -1 is 1. This is written as $|-1| = 1$.

On the number line, $+1$ is 1 unit from zero, so the absolute value of $+1$ is 1. This is written as $|+1| = 1$.

1. Find the absolute value of each number.

a. $|-4|$ _____

b. $|+5|$ _____

c. $|-2|$ _____

d. $|+4|$ _____

e. $|-5|$ _____

f. $|+2|$ _____

g. $|-9|$ _____

h. $|+7|$ _____

i. $|-10|$ _____

j. $|+9|$ _____

k. $|-7|$ _____

l. $|+10|$ _____

2. What two numbers have an absolute value of 8? _____

3. What two numbers have an absolute value of 12? _____

4. What two numbers have an absolute value of 20? _____

5. What pattern do you see in the numbers that have the same absolute value?

Write the next three integers in each pattern. Use absolute value notation.

6. $|-8|, |+10|, |-12|, |+14|$ _____

7. $|-1|, |-3|, |-5|, |-7|$ _____

8. $|+1|, |-2|, |+3|, |-4|$ _____

9. $|-5|, |-10|, |-15|, |-20|$ _____