

## Getting Ready for Chapter 9

1. Write each word statement **using symbols**:

- a) -8 is greater than -11      **-8 > -11**
- b) 0 is less than 12      **0 < 12**
- c) 6 multiplied by -4      **6(-4)**
- d) 15 is not equal to -15      **15 ≠ -15**
- e) 10 is equal to  $\frac{40}{4}$       **10 =  $\frac{40}{4}$**

2. Write each mathematical statement **in words**:

- a)  $15 > 9$       **15 is greater than 9**
- b)  $8 \neq 2$       **8 is not equal to 2**
- c)  $15 \div 3$       **15 divided by 3**
- d)  $7 < 20$       **7 is less than 20**
- e)  $-6 \leq -1$       **-6 is less than or equal to -1**

3. **Integers:** { ..., -3, -2, -1, 0, 1, 2, 3, ... }

List all of the **integers** that satisfy the following:

- a) between -1 and 5      **0, 1, 2, 3, 4**
- b) between -2.3 and 4.4      **-2, -1, 0, 1, 2, 3, 4**
- c) between -7 and -3      **-6, -5, -4**
- d) larger than 15 but smaller than 25      **16, 17, 18, 19, 20, 21, 22, 23, 24**
- e) less than 1.25 but greater than -5      **-4, -3, -2, -1, 0, 1**

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4. Insert either the less than symbol ( $<$ ) or the greater than symbol ( $>$ ) between the two numbers to make the statement true:

- a)  $8 < 14$
- b)  $-3 > -3.5$
- c)  $17 < 19$
- d)  $0 > -0.25$
- e)  $-50 > -100$

5. **Whole Numbers:** { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, ... }

List the whole numbers that satisfy each statement:

- a)  $n \leq 12$       **0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12**
- b) Between 2 and 8      **3, 4, 5, 6, 7**
- c)  $x > 6$       **7, 8, 9, ...**
- d)  $a < 4$       **0, 1, 2, 3**
- e) Between 0 and 5      **1, 2, 3, 4**
- f)  $m \geq 9$       **9, 10, 11, ...**