

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 $15 \neq -15$
- 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:** $\{ \dots, -3, -2, -1, 0, 1, 2, 3, \dots \}$

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:** $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, \dots\}$

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