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## CHAPTER I: EQUATIONS AND INEQUALITIES

### NOTES SECTION I.I: REAL NUMBERS AND NUMBER OPERATIONS

#### SUBSETS OF REAL NUMBERS

**WHOLE NUMBERS**

**INTEGERS**

**RATIONAL NUMBERS**

**IRRATIONAL NUMBERS**

**NUMBER LINE**

#### **EXAMPLE 1**

Graph the real numbers \_\_\_\_\_

#### **EXAMPLE 2**

The following are some record low temperatures:  $-32^{\circ}\text{F}$ ,  $-48^{\circ}\text{F}$ ,  $-40^{\circ}\text{F}$ ,  $-34^{\circ}\text{F}$ ,  $-50^{\circ}\text{F}$ ,

a) Order the temperatures from \_\_\_\_\_  
to \_\_\_\_\_.

b) Which temperatures are below \_\_\_\_\_?

## PROPERTIES OF ADDITION AND MULTIPLICATION

PROPERTY	ADDITION	MULTIPLICATION

### EXAMPLE 3

Identify the property shown.

a) _____	b) _____
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The opposite of any number  $a$  is \_\_\_\_\_.

The reciprocal of any nonzero number  $a$  is \_\_\_\_\_.

### EXAMPLE 4

a) The difference of _____ and _____ is: _____	b) The quotient of _____ and _____ is: _____
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### EXAMPLE 5 – UNIT ANALYSIS

Perform the given operation. Give the answer with the appropriate unit of measure.

a) _____	b) _____	c) _____
d) _____		

### EXAMPLE 6

You are exchanging \$\_\_\_\_\_ for French francs. The exchange rate is 6 francs per dollar. How much will you receive in francs?

### EXAMPLE 7

Page 9 # \_\_\_\_\_

