

Us Customary Units - Inequalities

Warmup

1. A _____ rate compares _____ measurements.
A _____ is in the denominator.

3. Write the set of each
numbers listed

Integers: _____

Counting numbers: _____

Whole numbers: _____

4. $-5 - -7 =$ _____
 $-6 - 3 =$ _____
 $4 - 1 =$ _____
 $-8 - 0 =$ _____

2. How many
inches are in a foot?

5. Solve and Check
 $X - 10 = 8$



Us Customary Units - Inequalities

- I. Metric System Equivalent Measures
- II. US Customary Volume and Capacity Equivalent Measures
- III. US Customary Time Equivalent Measures
- IV. US Customary Length Equivalent Measures
- V. Inequalities
- VI. Inequalities on the Number Line (Integers)
- VII. Inequalities on the Number Line (Real Numbers)

Homeschool*Honor Roll**Learn ~ Persevere ~ Succeed*

Pre-Algebra and Geometry I

Wendy Harper

www.HsHonorRoll.com

I. Metric System Equivalent Measures

$$\frac{10 \text{ mm}}{1 \text{ cm}} =$$

Metric Equivalent Measures

$$10 \text{ mm} = 1 \text{ cm}$$

$$100 \text{ cm} = 1 \text{ m}$$

$$1000 \text{ m} = 1 \text{ km}$$

The identity of multiplication is _____ because $x \cdot \text{_____} = x$

Convert 5 cm to mm

$$\frac{5 \text{ cm}}{1} \cdot \frac{10 \text{ mm}}{1 \text{ cm}} =$$

Complete each equation

$$\text{_____ mm} = 1 \text{ cm}$$

$$\text{_____ cm} = 1 \text{ m}$$

$$\text{_____ m} = 1 \text{ km}$$

6.

II. US Customary Volume and Capacity Equivalent Measures



Convert 4 cups to pints

Convert 26 cups
to pints

7.

Us Customary Volume and Capacity Equivalent Measures

8 ounces = 1 cup

2 cups = 1 pint

2 pints = 1 quart

4 quarts = 1 gallon

III. US Customary Time Equivalent Measures



Convert 3 hours to minutes

Us Customary Time Equivalent Measures

60 seconds = 1 minute

52 weeks = 1 year

60 minutes = 1 hour

365 days = 1 year

24 hours = 1 day

366 days = 1 leap year

7 days = 1 week

12 months = 1 year

8.

IV. US Customary Length Equivalent Measures



Convert 24 inches to feet

Convert 2 miles to yards

9.

Us Customary Length Equivalent Measures

12 inches = 1 foot

3 feet = 1 yard

5280 feet = 1 mile

1760 yards = 1 mile

V. Inequalities

Arithmetic Inequality

6 is greater than 4

$$6 > 4$$

9 is fewer than 30

$$9 < 30$$

Algebraic Inequality

x is no more than 4

$$x \leq 4$$

B is at least 6

$$B \geq 6$$

Inequalities

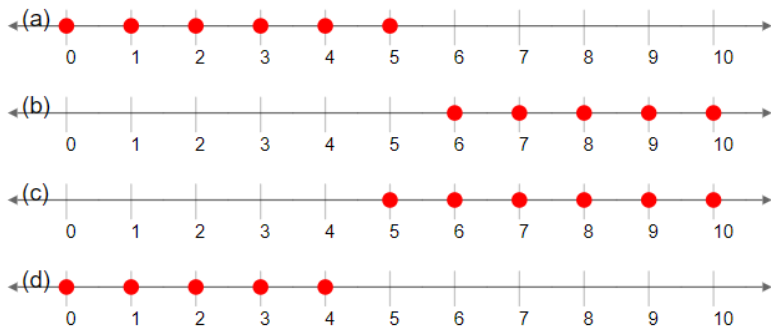
$<$	$>$	$\leq$	$\geq$
less than	greater than	less than or equal to	greater than or equal to
fewer than	more than	no more than	no less than
up to	exceeds	at most	at least
	in excess of		

VI. Inequalities on the Number Line (Integers)

What integers from 0 to 10 make $X < 5$ a true statement?

10.

Graph $X < 5$ for the set of integers.



VII. Inequalities on the Number Line (Real Numbers)

Real Numbers are numbers include the negative numbers, positive numbers and zero. A real number can have a fraction or a decimal part.

$$2.25 \quad -9.78 \quad -\frac{2}{3} \quad 0$$

The circle over the number is determined by the inequality.

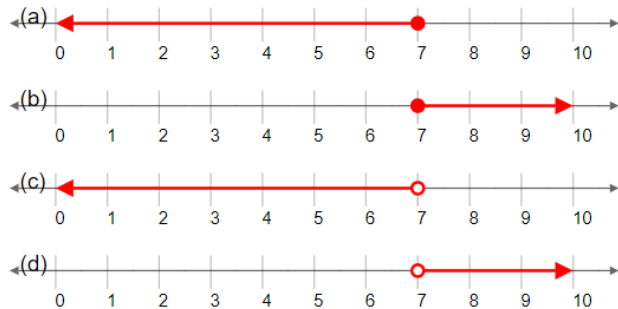
○ Use an open circle for $<$ or $>$

● Use a closed circle for $\leq$ or $\geq$

What real numbers make $S \geq 7$ a true statement?

What real numbers make $S < 7$ a true statement?

Graph $S \geq 7$ for the set of real numbers.



[illegible]