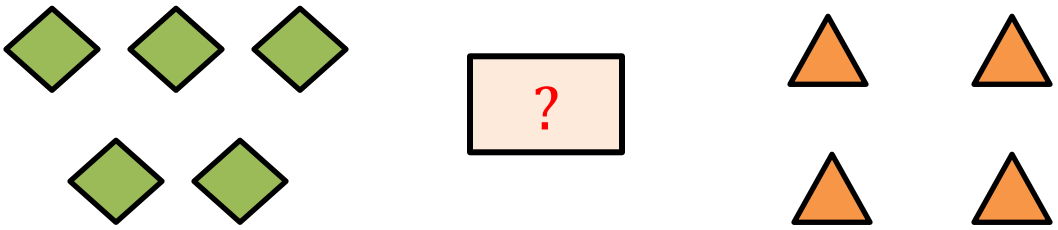
Name: _____ Period: _____ Date: _____

Inequalities Assignment

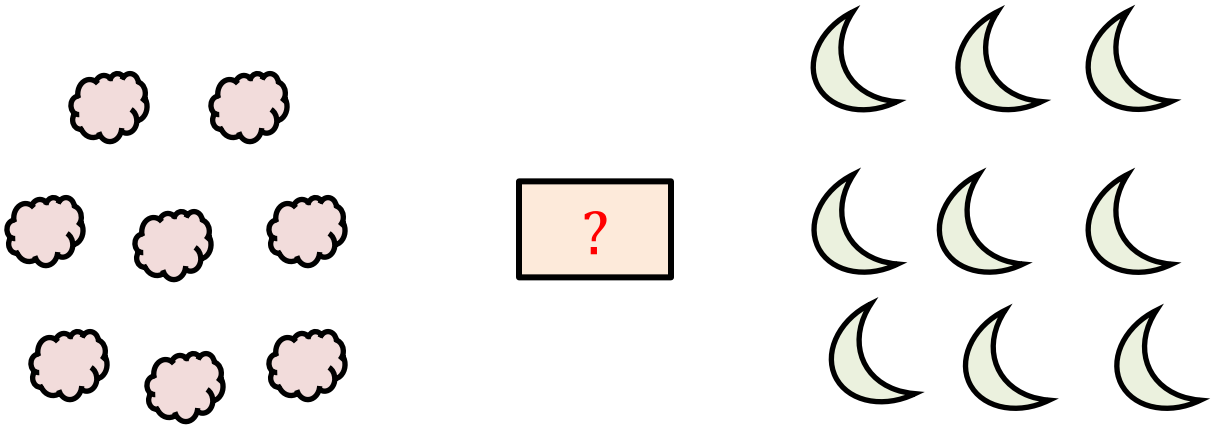
Math 6

Part 1: Compare the two quantites given in each case below and insert the correct inequality in the box below.

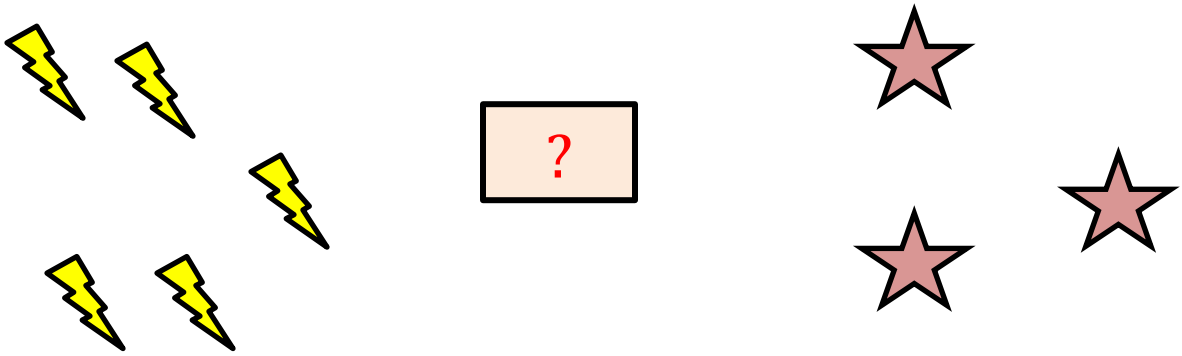
1.



2.



3.



Name: _____ Period: _____ Date: _____

Inequalities Assignment **Math 6**

Part 2: Write an inequality to represent each verbal statement given below.

1. The sum of 15 and x is greater than or equal to 12 minus y.

2. The difference of x and 7 is greater than 23.

3. The product of 3 and x is less than 15.

Name: _____ Period: _____ Date: _____

Inequalities Assignment **Math 6**

4. x is greater than or equal to y divide by 2.

Part 3: Graph each inequality given below.

1. $z \leq -20$

2. $m > 10$

Name: _____ Period: _____ Date: _____

Inequalities Assignment

Math 6

3. $a \leq -10$

4. $b > 12$

Part 4: Determine whether the inequality statement is TRUE or FALSE.

1. Is $x - 3 \leq 4$, if $x = 1$?

2. Is $x + 9 > 4$, if $x = -4$?

3. Is $\frac{x}{2} \leq -8$, if $x = 14$?

4. Is $-10 - x \leq -11$, if $x = 1$?

Answers:

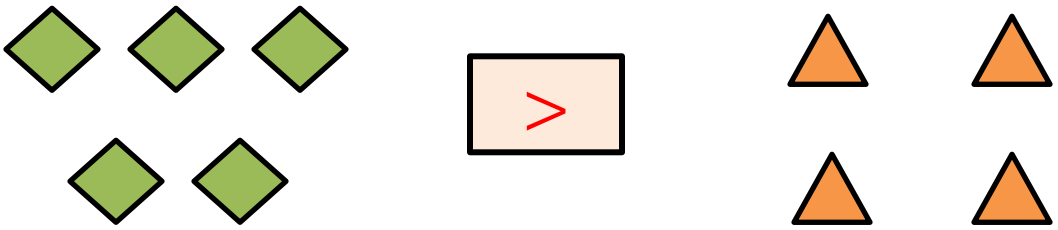
Name: _____ Period: _____ Date: _____

Inequalities Assignment

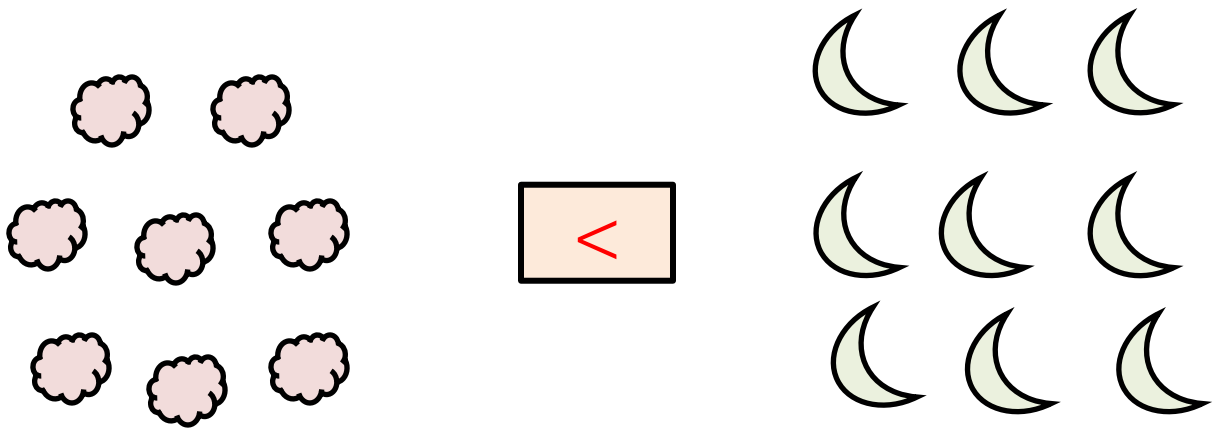
Math 6

Part 1: Compare the two quantites given in each case below and insert the correct inequality in the box below.

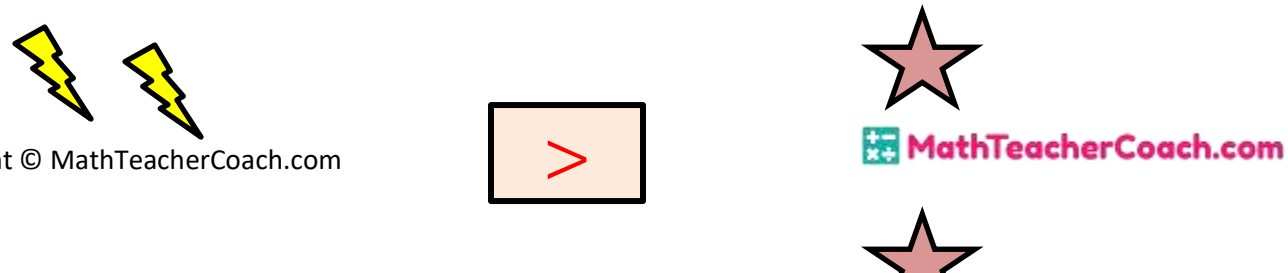
1.



2.



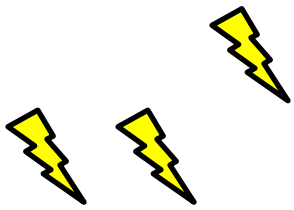
3.



Name: _____ Period: _____ Date: _____

Inequalities Assignment

Math 6



Part 2: Write an inequality to represent each verbal statement given below.

1. The sum of 15 and x is greater than or equal to 12 minus y.

The sum of 15 and x → $15 + x$

12 minus y → $12 - y$

$$15 + x \geq 12 - y$$

2. The difference of x and 7 is greater than 23.

The difference of x and 7 → $x - 7$

$$x - 7 > 23$$

Name: _____ Period: _____ Date: _____

Inequalities Assignment

Math 6

3. The product of 3 and x is less than 15.

The product of 3 and x $\rightarrow$ $3x$

$$3x < 15$$

4. x is greater than or equal to y divide by 2.

y divide by 2 $\rightarrow$ $\frac{y}{2}$

$$x \geq \frac{y}{2}$$

Part 3: Graph each inequality given below.

1. $z \leq -20$

Name: _____ Period: _____ Date: _____

Inequalities Assignment

Math 6

2. $m > 10$

3. $a \leq -10$

4. $b > 12$

Part 4: Determine whether the inequality statement is TRUE or FALSE.

1. Is $x - 3 \leq 4$, if $x = 1$?

Solution: TRUE

Inequalities Assignment

Math 6

2. Is $x + 9 > 4$, if $x = -4$?

Solution: TRUE

3. Is $\frac{x}{2} \leq -8$, if $x = 14$?

Solution: FALSE

4. Is $-10 - x \leq -11$, if $x = 1$?

Solution: TRUE