Period	

1. Write the following Equation or Inequality on the Line

a. The sum of a number and 5 is less than fifteen.

c. A number less seven is no less than to five.



b. A number times five equals fifteen.



d. The difference between a number and seven is zero.

e. The sum of a number and seven is at least fifteen.

f. A number is at most fifteen

g. Twice a number exceeds twenty.

- h. The sum of a number and nine no more than thirty.
- 2. What is the difference between an **Equation** and an **Inequality**?

3a.
$$\frac{x}{9-5} = 7$$

3b.
$$45 \ge 4x + 7x - 2x$$



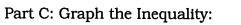
5. Which situations can you represent with and equation, which can you represent with an inequality?

A. Two friends live 7 blocks apart	Equation	Inequality
B. A girl earned \$26 babysitting on Saturday night	Equation	Inequality
C. Each class must have fewer than 23 students	Equation	Inequality
D. The homework took 4 hours to complete	Equation	Inequality

6. Sammy went to the store and bought cereal for c dollars, milks for 2 dollars and sugar for 5 dollars. If Sammy spent no more than 10 dollars, write, solves and graph an inequality to find the possible prices for the cereal.

Part A: Write an Inequality: _____

Part B: Solve the Inequality:





Part D: Which of the following are possible prices of the cereal (Circle all that apply)

\$2.99 \$3.50 \$2.79 \$3.00 \$4.25

Name	Key	

Period _____

1. Write the following Equation or Inequality on the Line

n+5 < 15
n · 5 = 15
n-7 27
n-7=0
n+7 > 15
n 4 15
2n > 20

+9 4 30

- a. The sum of a number and 5 is less than fifteen.
- b. A number times five equals fifteen.
- c. A number less seven is no less than to five.
- d. The difference between a number and seven is zero.
- e. The sum of a number and seven is at least fifteen.
- f. A number is at most fifteen
- g. Twice a number exceeds twenty.
- h. The sum of a number and nine no more than thirty.

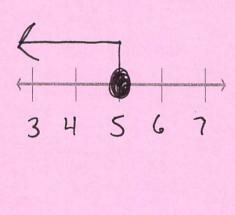
2. What is the difference between an **Equation** and an **Inequality**?

An	equation	hes	only	, 1	Solu	tion	while	cn
inea	uelity	hes	MORE	THAN	1	solution	1.	

3a.
$$\frac{x}{9-5} = 7$$
 $\frac{x}{4} + \frac{x}{4} = \frac{x}{28}$

3b.
$$45 \ge 4x + 7x - 2x$$

 $45 \ge 9x$
 $\frac{1}{5} \ge x$
 $x \le 5$



5. Which situations can you represent with and equation, which can you represent with an inequality?

A. Two friends live 7 blocks apart

Equation

Inequality

B. A girl earned \$26 babysitting on Saturday night

Equation

Inequality

C. Each class must have fewer than 23 students

Equation

Inequality

D. The homework took 4 hours to complete

Equation

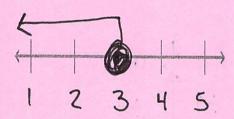
Inequality

6. Sammy went to the store and bought cereal for c dollars, milks for 2 dollars and sugar for 5 dollars. If Sammy spent no more than 10 dollars, write, solves and graph an inequality to find the possible prices for the cereal.

Part A: Write an Inequality: C + 2 + 5

Part B: Solve the Inequality:

Part C: Graph the Inequality:



Part D: Which of the following are possible prices of the cereal (Circle all that apply)

\$3.00

\$4.25