Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**From Equations to Inequalities – Part I**

**Classwork**

**Example 1**

What value(s) does the variable have to represent for the number sentence to be a true statement? What value(s) does the variable have to represent for the number sentence to be a false statement?

a. 𝑦+6=16

b. 𝑦+6>16

c. 𝑦+6≥16

d. 3𝑔=15

e. 3𝑔<15

f. 3𝑔≤15

**Example 2**

Which of the following numbers make the equation true? {0, 3, 5, 8, 10, 14}

a. 𝑚+4=12

b. 𝑚+4<12

c. 𝑓−4=2

d. 𝑓−4>2

e. 12ℎ=8

f. 12ℎ≥8

**Exercises**

Choose the numbers that make the equation or inequality true from the following set of numbers:

{0, 1, 5, 8, 11, 17}.

1. 𝑚+5=6

2. 𝑚+5≤6

3. 5ℎ=40

4. 5ℎ>40

5. 12𝑦=5

6. 12𝑦 ≤ 5

7. 𝑘−3=20

8. 𝑘−3>20

**Problem Set**

Choose the numbers that make the equation or inequality true from the following set of numbers:

{0, 3, 4, 5, 9, 13, 18, 24}.

1. ℎ−8=5

2. ℎ−8<5

3. 4𝑔=36

4. 4𝑔≥36

5. 14𝑦=7

6. 14𝑦>7

7. 𝑚−3=10

8. 𝑚−3≤10

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**From Equations to Inequalities – Part I**

**Exit Ticket**

Choose the numbers that make the equation or inequality true from the following set of numbers:

{3, 4, 7, 9, 12, 18, 32}.

1. 13𝑓=4

2. 13𝑓<4

3. 𝑚+7=20

4. 𝑚+7≥20