Lesson 33: From Equations to Inequalities

Classwork

Example 1

What value(s) does the variable have to represent for the equation or inequality to result in a true number sentence? What value(s) does the variable have to represent for the equation or inequality to result in a false number sentence?

- a. y + 6 = 16
- b. y + 6 > 16
- c. $y + 6 \ge 16$
- d. 3g = 15
- e. 3*g* < 15
- f. $3g \le 15$









Example 2

Which of the following number(s), if any, make the equation or inequality true: {0, 3, 5, 8, 10, 14}?

- a. m + 4 = 12
- b. m + 4 < 12
- c. f 4 = 2
- d. f 4 > 2

e.
$$\frac{1}{2}h = 8$$

f.
$$\frac{1}{2}h \ge 8$$









Exercises

Choose the number(s), if any, that make the equation or inequality true from the following set of numbers: $\{0, 1, 5, 8, 11, 17\}$.

1. m + 5 = 6

- 2. $m + 5 \le 6$
- 3. 5h = 40

4. 5h > 40

5. $\frac{1}{2}y = 5$

 $6. \quad \frac{1}{2}y \le 5$

- 7. k 3 = 20
- 8. k 3 > 20









Problem Set

Choose the number(s), if any, 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. 4*g* = 36
- 4. $4g \ge 36$

$$5. \quad \frac{1}{4}y = 7$$

$$6. \quad \frac{1}{4}y > 7$$

- 7. m 3 = 10
- 8. $m 3 \le 10$





