TOPIC 8

REVIEW EQUATIONS

Objective: REVIEW

Identifying the Number of Solutions to Equations

Determine whether each equation has one solution, no solutions, or an infinite number of solutions.

1. $2x = 18$

2. $x = 4x$

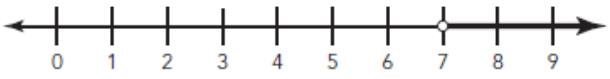
3. $6 = x + 3$

4. $15 = 5 \cdot x$

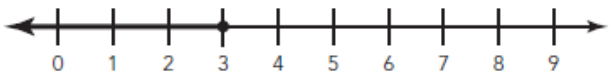
Graphing Inequalities with Positive Rational Numbers

Write the inequality represented by the given graph.

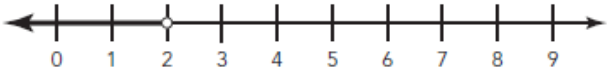
1.



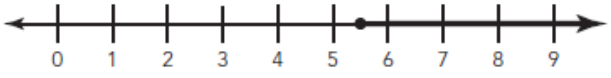
2.



3.



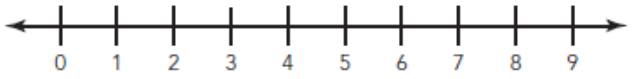
4.



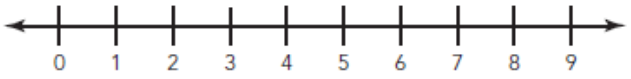
Graphing Inequalities with Positive Rational Numbers

Graph the solution set for each given inequality.

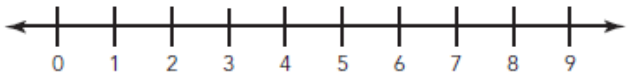
1. $x < 6$



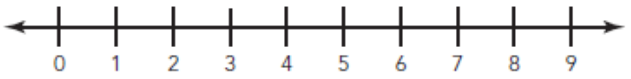
2. $x \geq 7.5$



3. $3\frac{1}{2} \geq x$



4. $x > 8.25$



Determine what value each variable represents

1. $p + 2 = 4 + 4$

2. $3 + a = 1 + 6$

3. $5 = 0 + q$

4. $6 + 5 = b + 5$

Determine what value each variable represents.

1. $2p = 4$

2. $3a = 6$

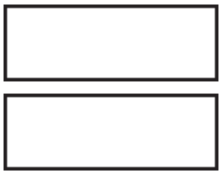
3. $6 + 2 = 4q$

4. $6 + 6 = 2b$

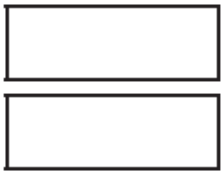
Solving One-Step Equations with a Bar Model

Create a bar model to solve each addition equation.

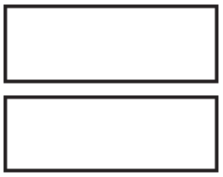
1. $x + 12 = 18$



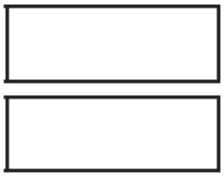
2. $40 = 10 + x$



3. $7.5 + x = 13$



4. $48 = x + 23$



Solving One-Step Equations with Addition and Subtraction
Solve each equation.

1. $8 = 6 + w$

2. $z - 2 = 10$

3. $4 = 2 + x$

4. $y + 2 = 5$

5. $4 = p - 8$

6. $g - 5 = 9$

Solving One-Step Equations with Multiplication and Division
Solve each equation.

1. $8 = 4w$

2. $\frac{y}{10} = 8$

3. $6 = z \div 2$

4. $5p = 20$

5. $2 = \frac{x}{5}$

6. $12 = 2a$