Pathway A **Task: Equations & Inequalities #1**

Materials: Construction paper, Scissors, Glue and Student Page

Cut out all of the numbers on your Student Page, then place the expressions that create **25**.

Pathway A **Task: Equations & Inequalities #2**

Materials: Student Page

Solve the equation given in #1.
Create an equation for #2 and #3.

1. $X + 17 = 19$

2.

3. Mr. Smith's truck can travel exactly 510 miles on one full tank of gasoline. After filling up the tank with gasoline, he traveled 194 miles in the truck. Write an equation that represents the value of m, the number of miles Mr. Smith can travel in the truck with the remaining gasoline in the tank?

Pathway A   **Task: Equations & Inequalities #3**

Materials: Student Page

Solve the inequalities below and place your answers on a number line.

1. $4x < 56$

2. $X - 2 \geq 7$

3. Shane walks no more than 25 dogs on Sundays. Ms. Sims has 5 dogs that Shane walks. The inequality shown can be used to find x, the number of dogs Shane can walk on Sunday in addition to Ms. Sim's dogs.

$$X + 5 \leq 25$$

Pathway A   **Task: Equations & Inequalities #4**

Materials: Construction paper, Scissors, Glue and Student Page

Cut out all expressions given on your student page. Match the expressions that are equivalent.

Pathway B   **Task: Equations & Inequalities #1**

Materials: Construction paper, Scissors, Glue and Student Page

Cut out all of the expressions from your Student Page, simplify the expressions and then place them in 2 different categories on construction paper.

Pathway B   **Task: Equations & Inequalities #2**

Materials: Student Page

Solve the equations given in #1 and #2.
Create an equation for #3.

1. X - 22 = 18

2.
| X |
| X | | X | = | 1 | 1 | 1 | 1 |
                | 1 | 1 | 1 | 1 | 1 |

3. Mr. Smith's truck can travel exactly 510 miles on one full tank of gasoline. After filling up the tank with gasoline, he traveled 194 miles in the truck. Write an equation that represents the value of m, the number of miles Mr. Smith can travel in the truck with the remaining gasoline in the tank?

Pathway B   **Task: Equations & Inequalities #3**

Materials: Student Page

Solve the inequalities below and place your answers on a number line.

1. -4x < 56

2. $\frac{X}{4} \geq 11$

3. Shane walks no more than 25 dogs on Sundays. Ms. Sims has 5 dogs that Shane walks. The inequality shown can be used to find x, the number of dogs Shane can walk on Sunday in addition to Ms. Sim's dogs.

$$X + 5 \leq 25$$

Pathway B   **Task: Equations & Inequalities #4**

Materials: Construction paper, Scissors, Glue and Student Page

Cut out all expressions given on your student page. Match the expressions that are equivalent.

Pathway C   **Task: Equations & Inequalities #1**

Materials: Construction paper, Scissors, Glue and Student Page

Cut out all of the expressions from your Student Page, simplify the expressions and then place them in 3 different categories on construction paper.

Explain the difference between the 3 categories.

Pathway C   **Task: Equations & Inequalities #2**

Materials: Student Page

Solve the equations given in #1 and #2.
Create an equation and solve for #3.

1. $X - 54 = -9$

2. $\boxed{-X}\ \boxed{-X}\ \boxed{-X} = \boxed{1}\boxed{1}\boxed{1}\boxed{1}\boxed{1}\boxed{1}\boxed{1}\boxed{1}\boxed{1}$

3. Mr. Smith's truck can travel exactly 510 miles on one full tank of gasoline. After filling up the tank with gasoline, he traveled 194 miles in the truck. Write an equation to solve for the value of m, the number of miles, Mr. Smith can travel in the truck with the remaining gasoline in the tank?

Pathway C   **Task: Equations & Inequalities #3**

Materials: Student Page

Solve the inequalities below and place your answers on a number line.

1. -4x < -56

2. $\frac{X}{4}$ ≥ -11

3. Shane walks no more than 25 dogs on Sundays. Ms. Sims has 5 dogs that Shane walks. Create and solve an inequality that can be used to find x, the number of dogs Shane can walk on Sunday in addition to Ms. Sim's dogs.

Pathway C   **Task: Equations & Inequalities #4**

Materials: Construction paper, Scissors, Glue and Student Page

Cut out all expressions given on your student page. Match the expressions that are equivalent.
Then create your own additional equivalent expressions for each pair.