**Station 1**

Solutions:

1) No Solution

2) Identity

3) 

4) 

5) 

CHALLENGE: No solution

**IDENTITY**

**NO SOLUTION**

**LITERAL EQUATIONS**

**Station 2**

Solutions:

1) x = 3

2) x = 2

3) x = 6 inches

4) x = 3 feet

CHALLENGE: x = 1 cm

**PERIMETER**

**COMBINE LIKE TERMS**

**Station 3**

Solutions:

1) x = -14

2) x = -4

3) x = 6

4) x = 5

**VERTICAL ANGLES**

**& SOLVING**

**Station 4**

Solutions:

1) x = 12.5 or x = 25/2

2) x = 2

3) The man is 6 ft tall.

4) 5 cups of sugar

CHALLENGE: The tree would cast a shadow 17.6 ft long.

**PROPORTIONS**

**PROPORTION APPLICATION**

**Station 5**

Solutions:

1) x = 15

2) x = 21

3) x = 2

4) x = 51/8 or x = 6.375

5) x = 13.6 or x = 68/5

**FRACTIONS**

**Station 6**

Solutions:

1) x = # of tickets 15x + 8 = 98 x = 6 tickets

2) x = # of shirts 8x – 5 = 35 x = 5 shirts

3) x = # of tickets 165x + 30 = 690 x = 4 tickets

CHALLENGE: x = # of people in the family 225x + 20x = 735 x = 3 people are in the family

**WORD PROBLEMS**