1) Please complete the 2.8 Entry Ticket

2) Please solve the following equations:

   a. \[7r + 6 = 4 + 7r\]

      \[-2r\]

      \[-7r\]

      \[6 = 4\] False

      \[\text{No Solution!}\]

   b. \[2b + 13 = 7 + 2(b + 3)\]

      \[2b + 13 = 7 + 2b + 6\]

      \[2b + 13 = 2b + 13\]

      \[-13\]

      \[-13\]

      \[2b = 2b\]

      \[-2b - 2b\]

      \[0 = 0\]

      \[\text{Infinite Solutions.}\]

3) What are two consecutive integers that sum to 33?

   Can you come up with an equation to show this???

   \[b = 16 + 17\]

   \[(n + 1) + (n + 2) = 33\]
The sum of two consecutive integers is 33

\[ x + (x+1) = 33 \]

\[ 2x + 1 = 33 \]

\[ 2x = 32 \]

\[ x = 16 \]

Write an equation to determine the values of the integers.

16 + 17 = 33
The sum of three consecutive odd integers is 39

\[ x + (x+2) + (x+4) = 39 \]

What is the largest number?

\[ 3x + 6 = 39 \]

\[ -6 \quad -6 \]

\[ 3x = 33 \]

\[ \frac{3x}{3} = \frac{33}{3} \]

\[ x = 11 \]

\[ x + 4 \]

\[ 11 + 4 \]

\[ 15 \]
You have $25 to spend at the movies. You have a few options:

a) You can buy the ticket ($10), 2 boxes of candy and a large drink ($6) and have $1 left over.

b) You can buy the ticket ($10), 3 boxes of candy and a small drink ($3) and have nothing left over.

OR

\[ x = \text{cost per candy box} \]

\[ 2x + 6 + 10 + 1 = 25 \]

\[ 25 = 10 + 3 + 3x \]

combined

\[ 2x + 6 + 10 + 1 = 10 + 3 + 3x \]

\[ 2x + 17 = 13 + 3x \]

\[ -2x \]

\[ 17 = 13 + x \]

\[ -13 \]

\[ 4 = x \]
Transitive Property

If \( a = c \) and \( b = c \),
then \( a = b \)!
Mike can buy 2 slices of pizza, a bottle of water for $1 and chips for $1 and have $6 left over, or he can buy 3 slices of pizza and a $2 drink and have $4 left over.

If \( c = \text{cost of a slice of pizza} \), write an equation that represents this situation.

Solve your equation to determine the cost of a slice of pizza.

\[
2c + 1 + 1 + 6 = 3c + 2 + 4
\]

\[
2c + 8 = 3c + 6
\]

\[
2 = c
\]

Use your answer to determine the amount of money Mike has to spend on lunch.

\[
2(2) + 1 + 1 + 6 = 12
\]