

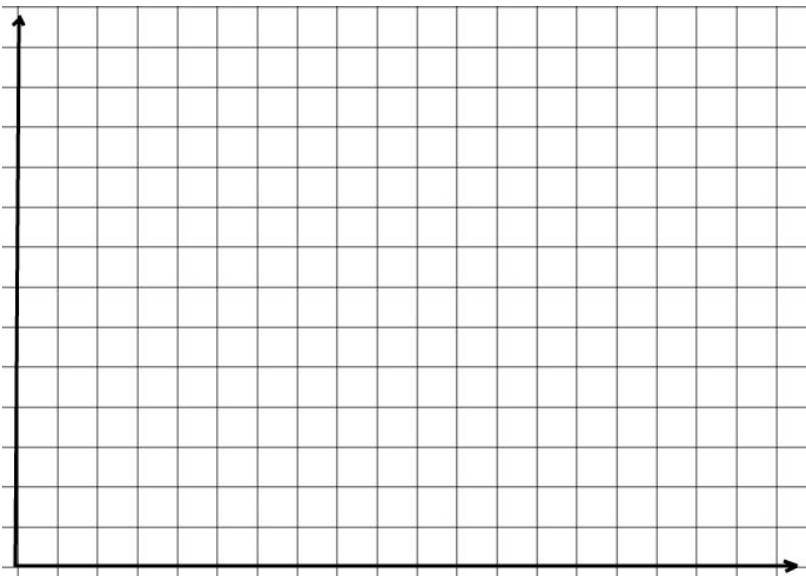
Sadie bikes 4 miles per hour faster than Miguel. How fast does Sadie bike?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



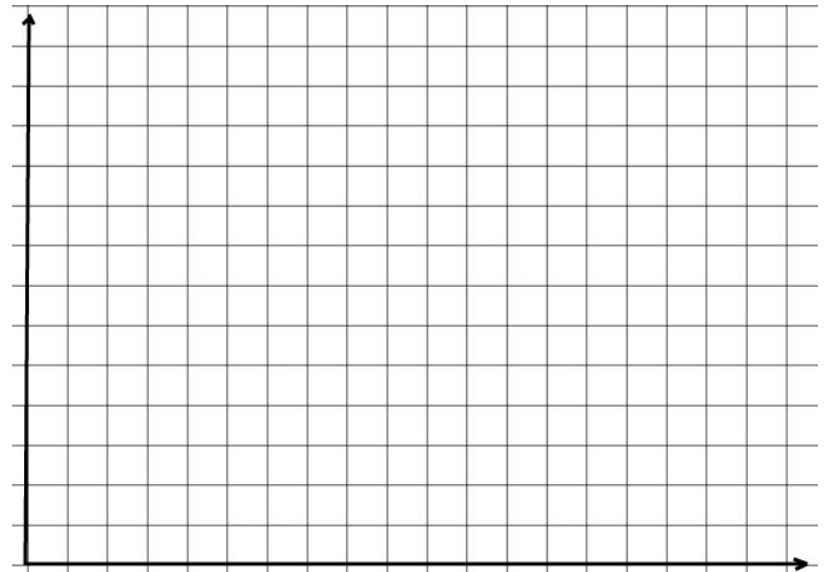
The farmer's market is selling apples. In every bag, there are 3 apples. How many apples are in  $b$  bags?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



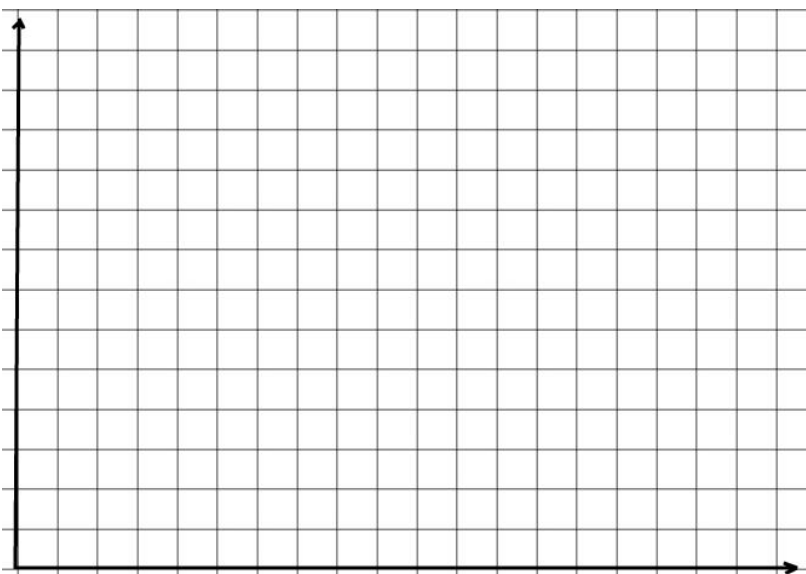
In New York, you get \$0.05 back when you return an empty soda can or bottle. How much money is given when  $c$  cans/bottle are returned?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



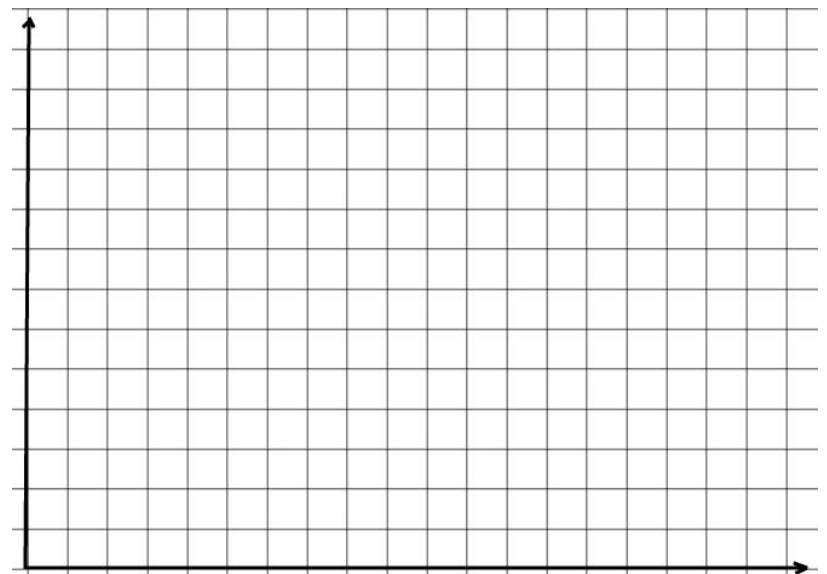
Sandy is 2 years older than Randy. How old is Sandy?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



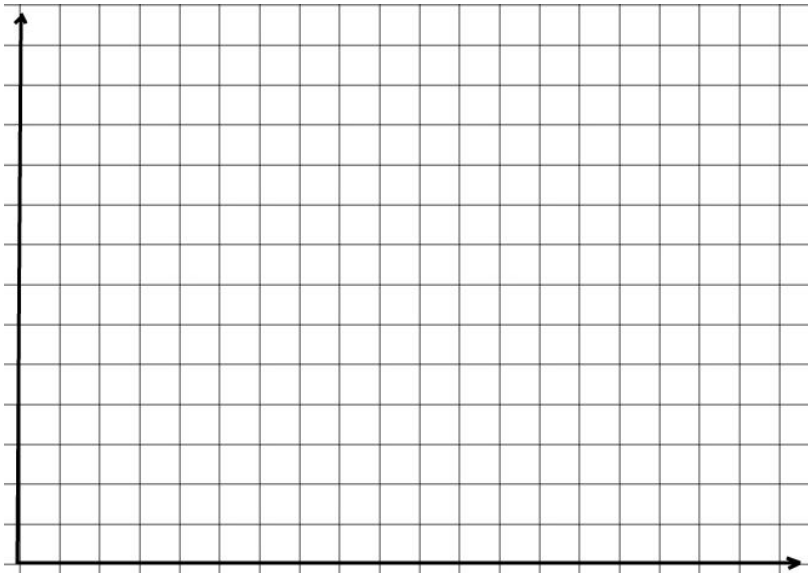
Jen saved three times as much money as Mark. How much money did Jen save?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



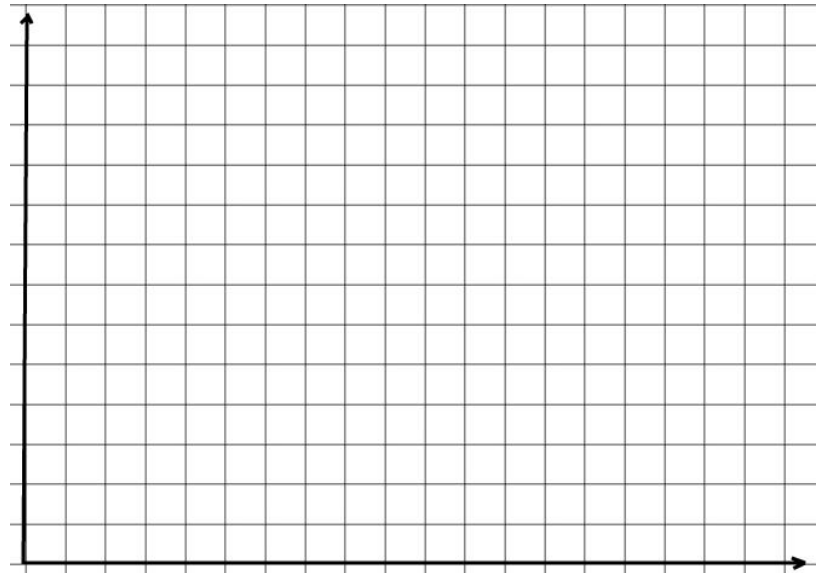
Amy makes 12 more pizzas than Matt each day at the pizzeria. How many pizzas does Amy make?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



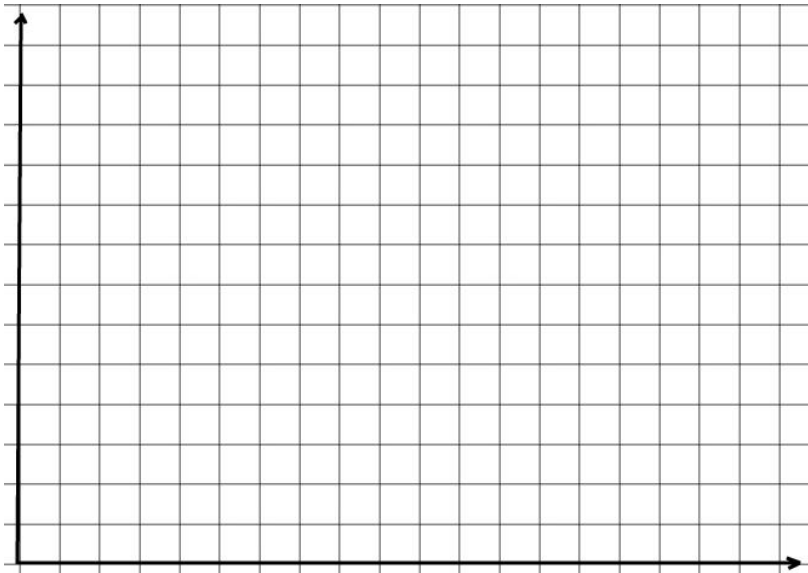
It costs \$2.50 per mile to ride the bus. How much will it cost to ride  $m$  miles?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



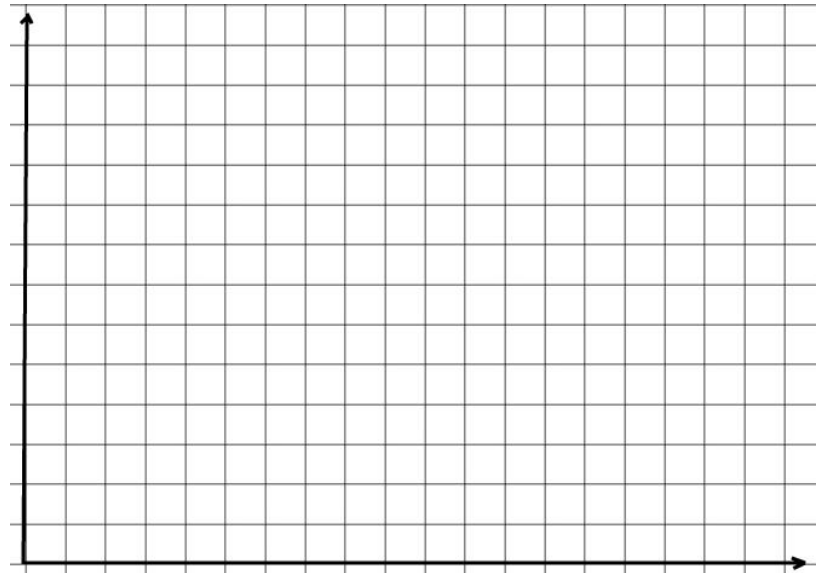
Each week, Lex runs 5 more miles than he ran the week before. How many miles does Lex run this week?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



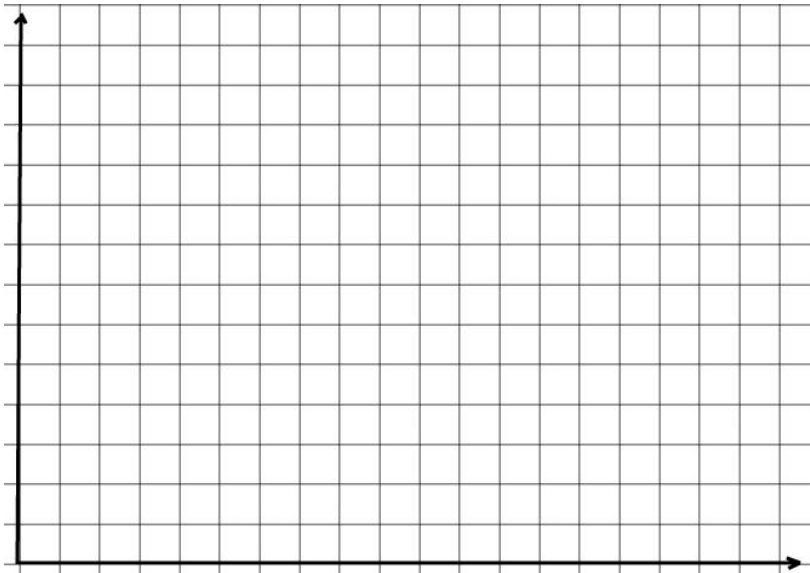
A radio station plays 12 songs per hour. How many songs are played in  $h$  hours?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



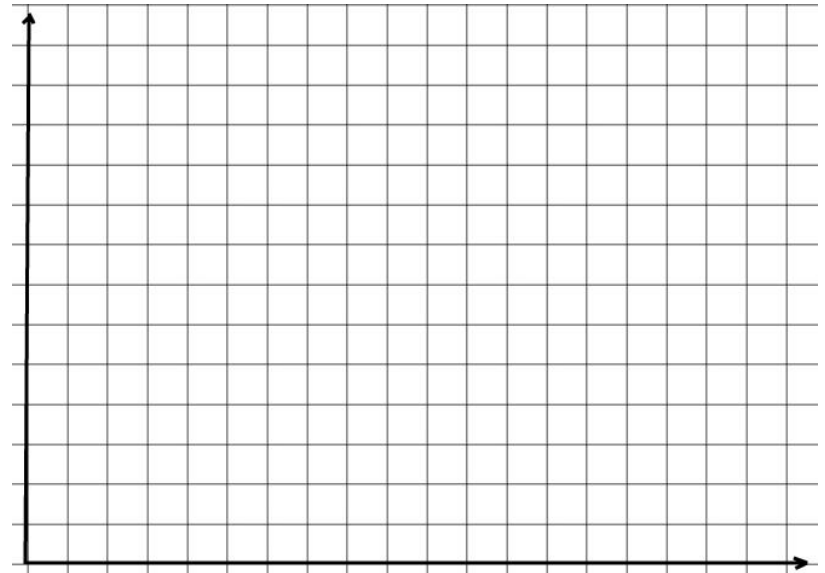
Anne swings 2 more times than Jesus on each hole while put-putting. How many times does Annie swing?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



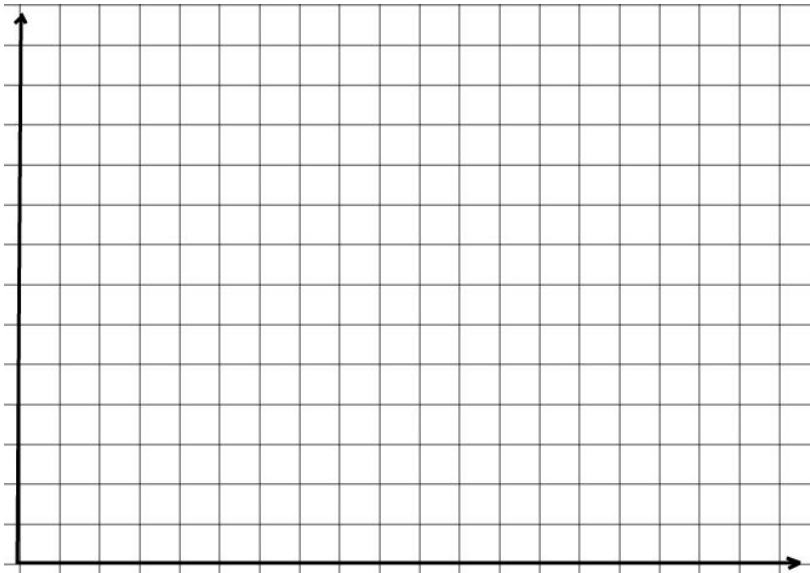
A roller coaster at Six Flags can hold 18 people each run. How many people can go on  $r$  runs?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



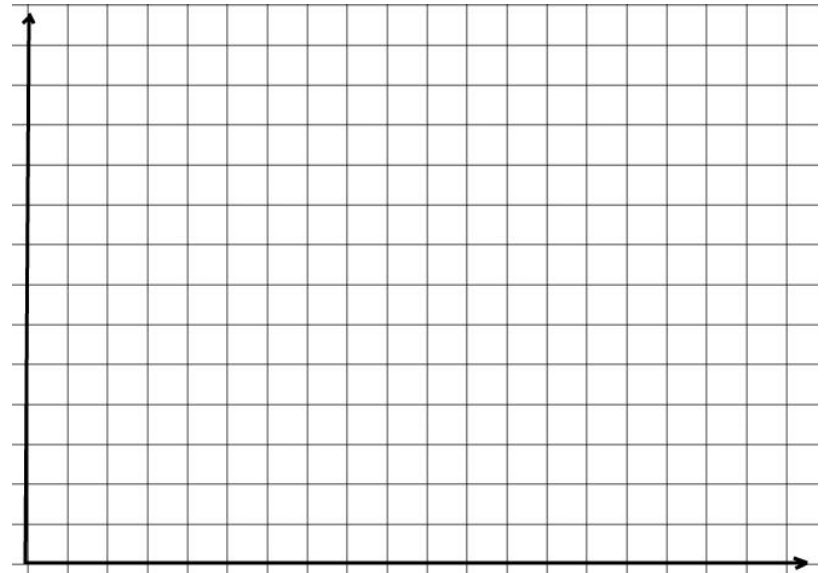
A ruby-throated hummingbird beats its wings about 2 times per second. How many times will the wings beat in  $s$  seconds?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



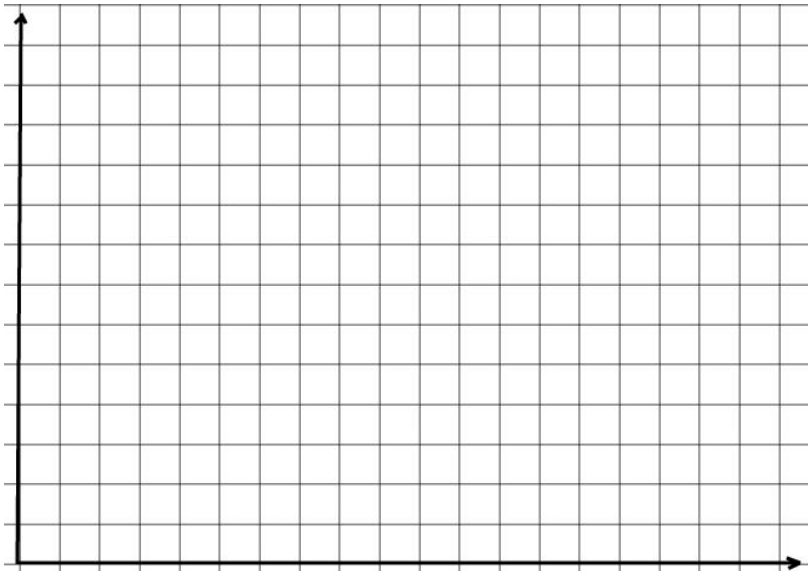
Isabella gets paid \$20 per hour to write articles for the Roswell Newspaper. How much will she make in  $h$  hours?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



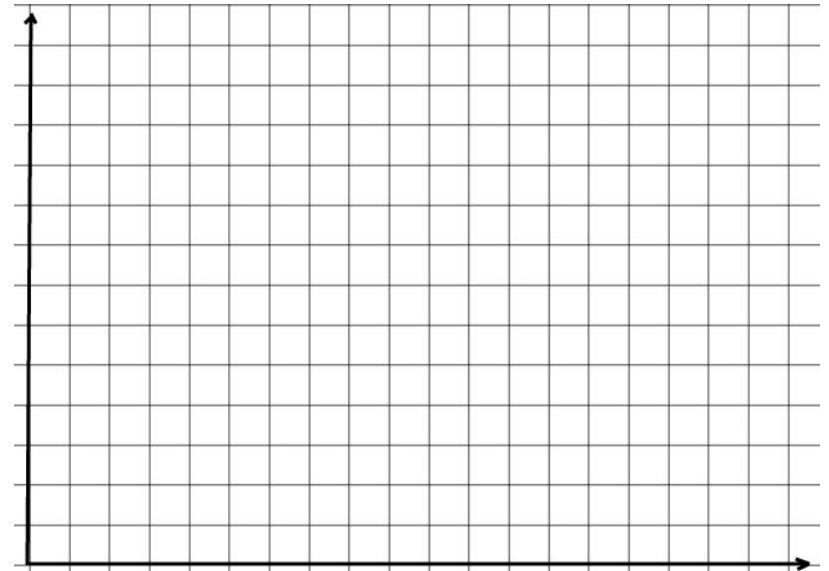
Tracy sends 14 more texts than Enrique each month. How many texts does Tracy send?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



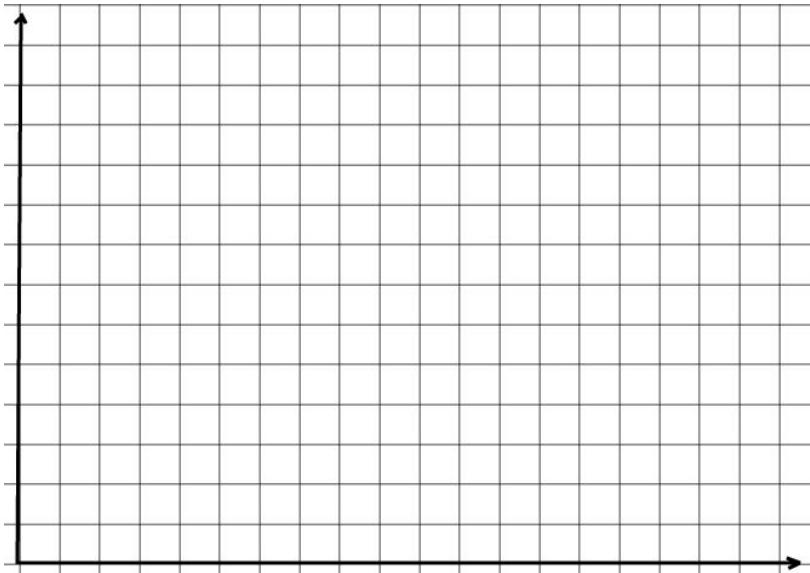
Eight more people prefer peppermint to cinnamon gum. How many people prefer peppermint gum?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



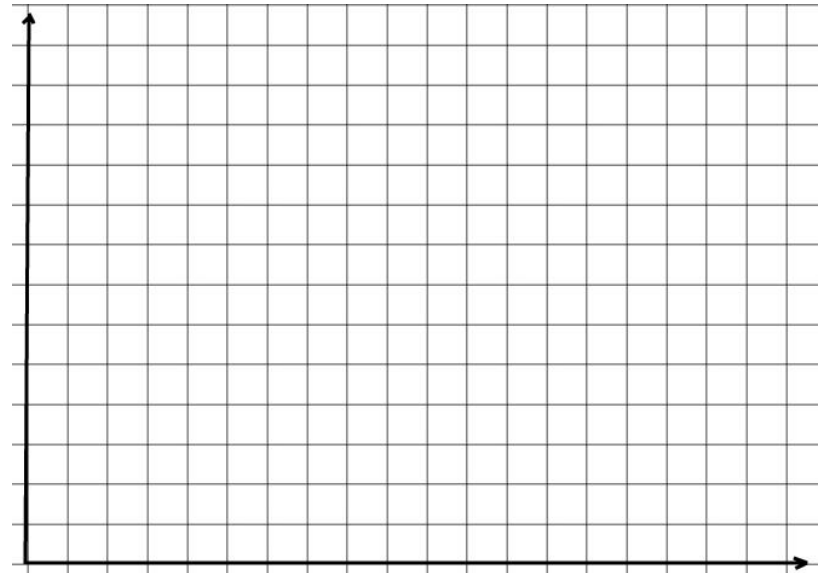
Shante is 4 inches taller than her cousin Bobby. How tall is Shante?

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:





**Personal Notes**

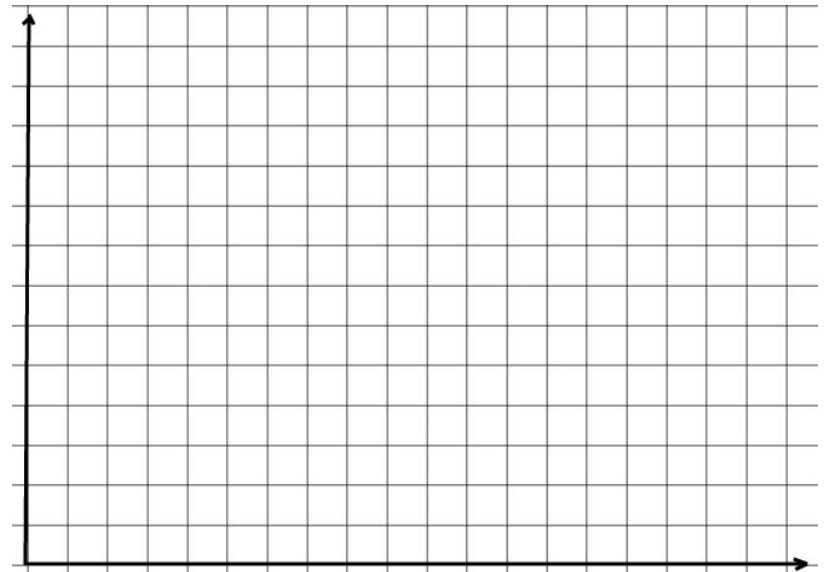
Six more than 3 less than a number equals y.

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



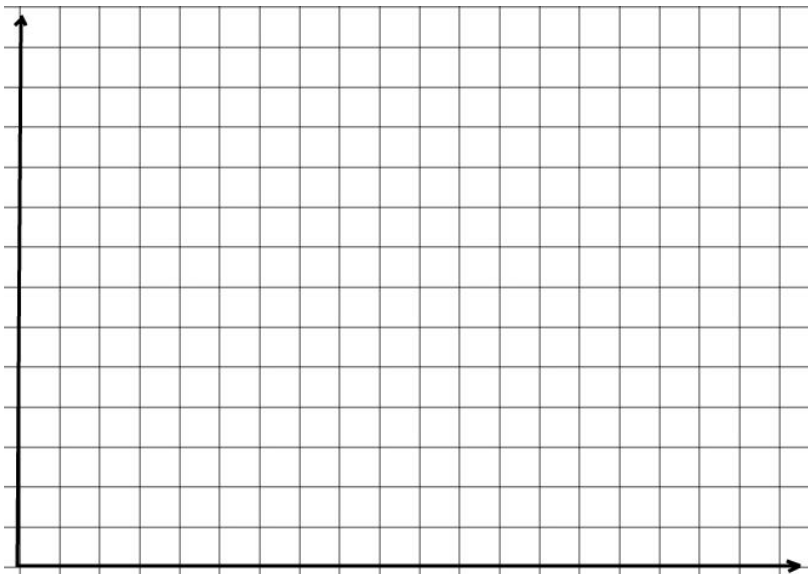
Write your own addition story problem:

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



- algebraic equations are used to solve story problems
- To do this, pick a frame:
  - If the story problem prompts us to add, use  $x + p = q$
  - If the story problem prompts us to multiply, use  $xp = q$
- $x$  represents the value we are given in the story problem
  - we will replace the  $x$  with the number from the story problem
- $p$  represents the value we will substitute in to get an answer
  - we will replace the  $p$  with an appropriate variable that you have defined
- $q$  is the result when  $x$  and  $p$  are added or multiplied together
  - be sure to also define  $q$
- in these equations,  $p$  is the independent variable
  - this means we chose what to enter for  $p$
- in these equations,  $q$  is the dependent variable
  - $q$  will depend of what we choose for the independent variable
  - $q$  will change whenever we change  $p$
- to create a table of values:
  - Choose different numbers to substitute in for the  $p$  (independent) value. This number will go on the left side
  - Substitute your choice into the equation and evaluate. This will create  $q$  (the dependent variable). This will go on the right side of the table.
- To plot your table into the coordinate plane:
  - Use your table of values. The numbers side by side create coordinate pairs.
  - The first number tells us how many to go to the left.
  - The second number tells us how many to go to the right.
  - At this point, plot a dot.
  - Continue until all of the rows are plotted
  - Connect dot with a line
  - Give your graph a title, and be sure to label the  $x$  and  $y$  axes

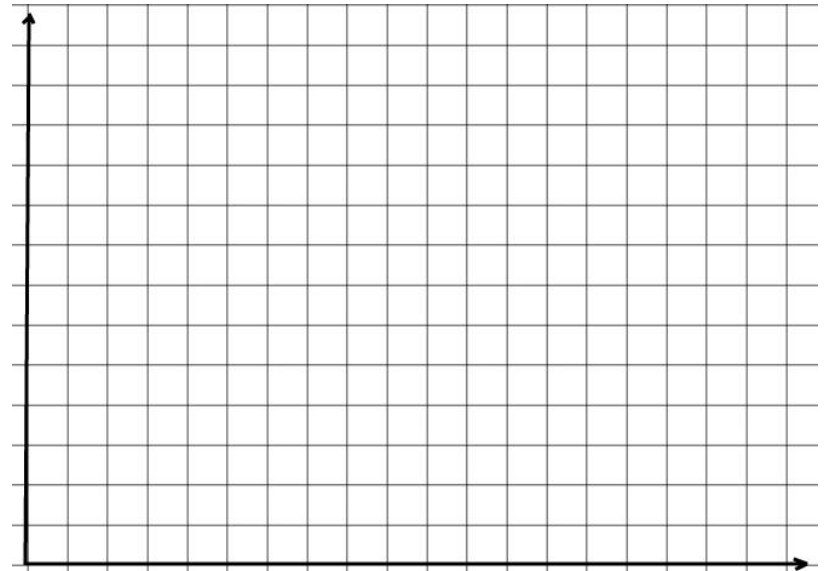
Write your own multiplication story problem:

Known Quantity:


Define Variable 1:

Define Variable 2:

Equation:



**The End!**

**'s**  
**Equation**  
**Book**