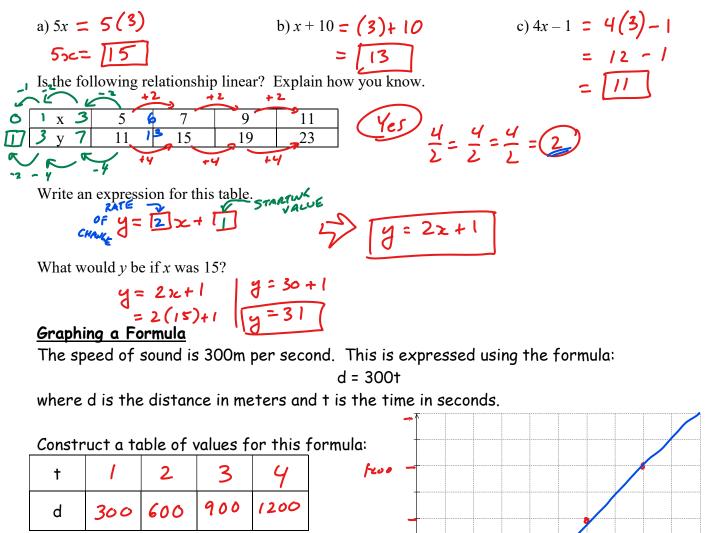


9.3 Linear Relationships

Evaluate each expression if x = 3



750

600

2

Ł

4

Considerations:

Use your table to draw the graph.

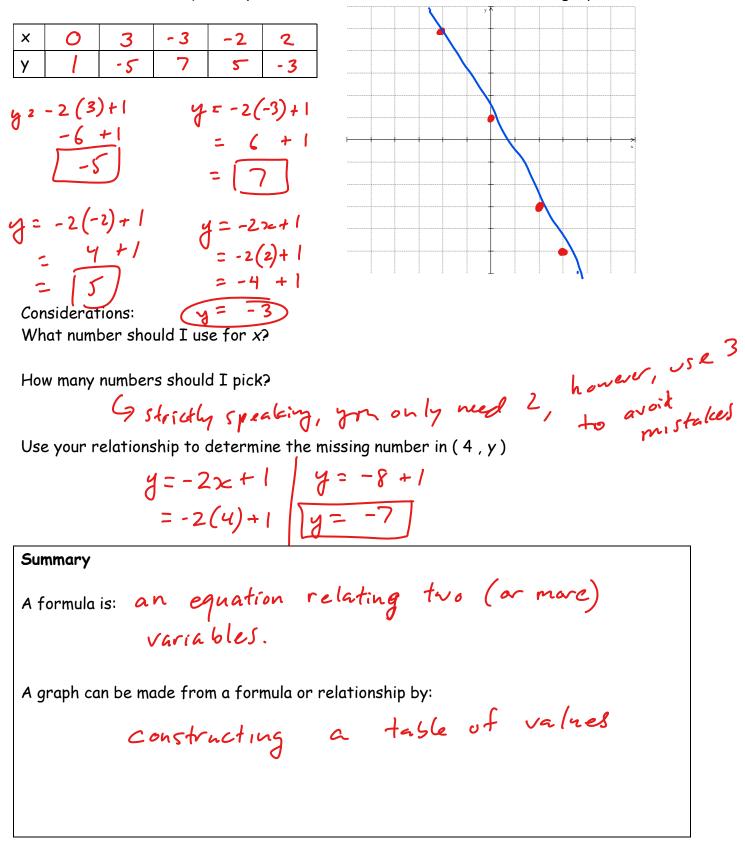
Could you make a prediction for how far the sound travels in 2.5 seconds?



Graphing a Relationship using Integers

Sometimes, you may use integers instead of whole numbers:

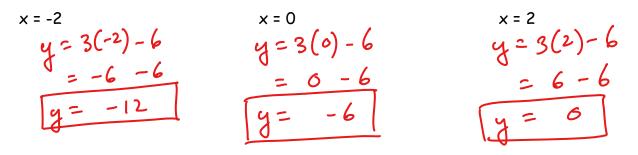
Use the linear equation y = -2x + 1 to make a table and construct a graph



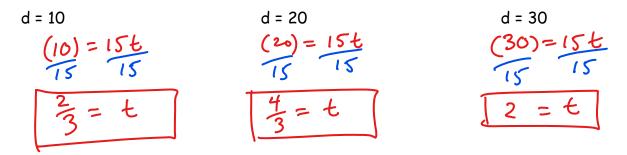
Translating Algebraic Phrases:

A number decreased by ninety-two	n - 92
The sum of eighty-nine and a number	89 + n
A number added to thirty-six	36 + n
The sum of a number and twenty-six	n + 26
The difference between forty-six and a number	46 - n
The product of forty-three and a number	43 n
The quotient of twenty and a number	20 ÷ n
A number increased by sixty-five	n +65
The product of seventy and a number	70n
A number decreased by eighteen	n - 18
Fifty-five times a number	55h
Twice a number	2n
Sixty-five more than a number	n + 65
Seventy-five less than a number	n - 75
A number less than seventy-five	75 - n
One third of a number	$\frac{1}{3}n$
Three times a number	3n
The quotient of a number and twelve	n÷12

1) Given y = 3x - 6, solve for y when



2) Given d = 15t, solve for t when



3) If the equation is y = -4x + 2, the value for y in (-1, y) is _____

