

Constant of Proportionality:

The constant of proportionality is another term for the _____, and it tells us the amount that your y-value changes by for every 1 unit that your _____ changes.

I. The table below shows the number of pages read by a student compared to the amount of time that has passed. Use the table to answer questions a-c.

Hours Passed	2	4	6	8
Pages Read	148	296	444	592

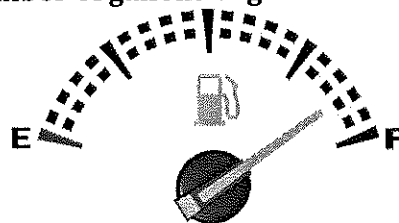
a. Pick two ordered pairs on the table, and test to see if they are proportional.

b. What is the constant of proportionality? Explain what this means.

c. How many pages would the student read if they read for 9 hours?

II. The table below shows the number of miles driven and the number of gallons of gas consumed by a car. Use the table below to complete parts a-c.

Gas (gallons)	0	0.8	1.2	1.6	2.0	4.0	12.0
Miles	0	20	30	40	50	100	300



a. Pick two ordered pairs on the table, and test to see if they are proportional.

b. What is the constant of proportionality? Explain what this means.

c. How many gallons of gas would you consume if you drove 175 miles?

III. Which table below represents a proportional relationship? Explain how you know.

Time	Dollars
1	60
2	80
3	100

Time	Dollars
1	15
2	20
3	30

Time	Dollars
1	48
2	96
3	144