

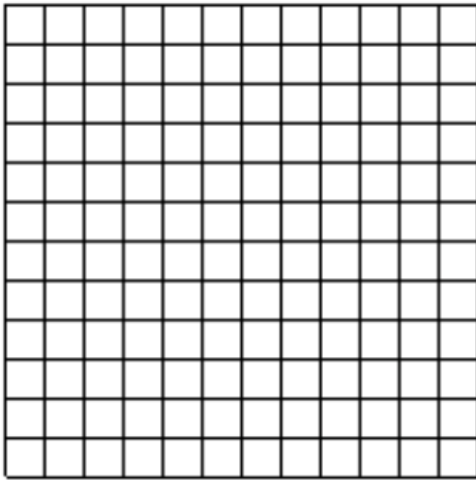
Math 2 Direct Variation

1) The time in seconds that thunder is heard after a lightning strike is directly proportional to number of miles away the lightning is. The following table shows the time in seconds after the lightning that the thunder is heard as a function of the number of miles away the lightning is.

a. Finish the table

Miles (m)	0	1	2	3	4	5	6	7	8	9	10
Sec (s)	0	0.2	0.4	0.6							

b. Graph



c. What is the change in seconds as the miles increase by one.

d. Using the table, divide the sec/miles. What do you get each time you divide no matter

e. Which of the following rules matches the graph and table?

$s = m + 0.2$

$s = 0.2m$

$m = s/0.2$

$m = 0.2s$

f. Looking at the table, what happens to the corresponding y value when any x value is multiplied by 2?

a) the y value is also multiplied by 2

b) the y value is divided by 2

c) nothing, there is no pattern

d) the y value is increased by 2

g. What will happen to the corresponding y value when any x value is multiplied by 3?

a) the y value is also increased by 3

b) nothing, there is no pattern

c) the y value is divided by 3

d) the y value is multiplied by 3