

Independent and Dependent Variables Homework

Example: Identify the independent and dependent variables

Peter coaches soccer clinics and charges \$15.00 per player. T stands for the total amount of money he makes and P stands for the number of players that sign up. Identify the independent and dependent variable:

T - Amount of money he makes depends on P - Number of players that sign up
 Dependent Variable Independent Variable

Please identify the independent and dependent variables in the following:

1. Mr. Mackar's soccer team is having a car wash to raise money for new uniforms. C stands for how many cars are washed and I stands for how much money they raise.

I depends on C
 Dependent Variable Independent Variable

2. Tara uses her cell phone a lot and she gets charged \$0.05 a minute. C stands for the total she pays and M stands for the number of minutes she uses the phone.

C depends on M
 Dependent Variable Independent Variable

$$C = 0.05M$$

3. Yvonne reads about 20 pages a night before she goes to bed. N stands for the number of nights she has read and P stands for the total number of pages.

P depends on N
 Dependent Variable Independent Variable

$$P = 20N$$

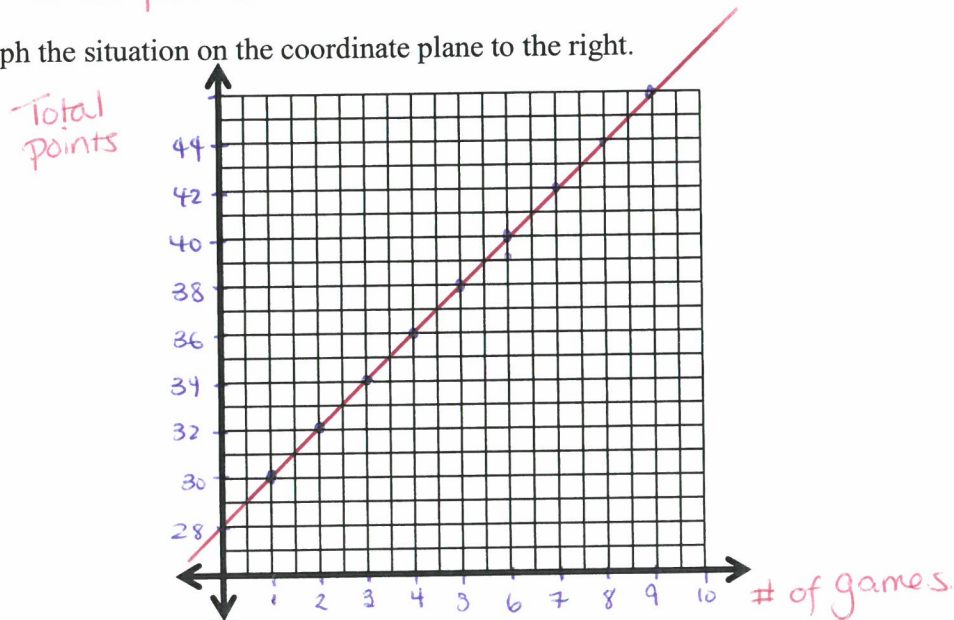
4. During the first game of a season, a team scored 30 points. Over the course of the season, the team improved by 2 points per game. T stands for the total points improved and G stands for the number of games played.

a. T depends on G
 Dependent Variable Independent Variable

- b. Fill in the table below showing the improvement for each additional game.

(G) Number of Games	1	2	3	4	5	6
(T) Total points	30	32	34	36	38	40

- c. Graph the situation on the coordinate plane to the right.



5. When I opened the last box of Kleenex for class use, I noticed that the box says there are 124 Kleenex in it. Each class period I counted and on average 8 Kleenex were used. C stands for the number of periods and R stands for how many Kleenex remain in the box.

a. R depends on C
 Dependent Variable Independent Variable

- b. Fill in the table below showing how many Kleenex remain after each period.

(C) # of class periods	0	1	2	3	4	5
(R) # of Kleenex that remain in the box	124	116	108	100	92	84

- c. Graph the situation on the coordinate plane to the right.

