

Name: KEYTable/Graph/Equation/Situation Problems

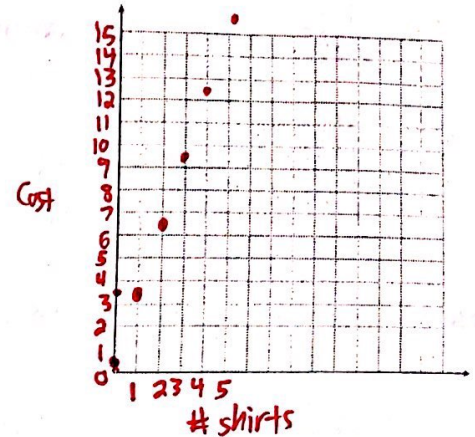
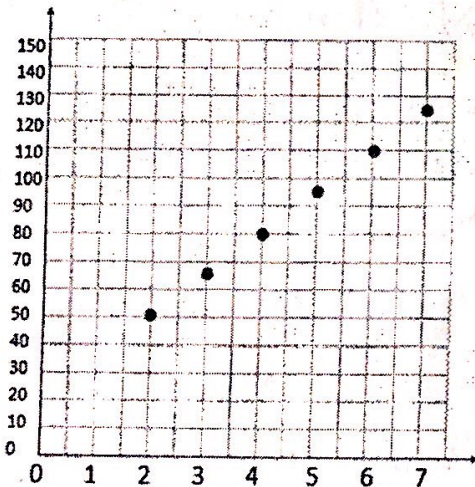
Directions: For each problem, one form of a linear relationship is given – either a table, a graph, an equation, or a real-world situation written out in words. Based on which representation is given, you must create the other three. So, for example, if the equation is given, you must create a table (x-values from 0 to 5 is fine), a graph (be sure to scale your x and y-axis appropriately, and think about whether or not it would make sense to connect your dots!) and think of your own real-world situation that would match the equation.

ATable: (need graph, equation, situation)

Number	Cost
1	\$3.50
2	\$6.50
3	\$9.50
4	\$12.50
5	\$15.50

$$y = 3x + 0.50$$

Every t-shirt costs \$3,
plus a 50¢ shipping fee.

**B**Graph: (need table, equation, situation)

0	20
1	35
2	50
3	65
4	80
5	95
6	110
7	125

$$y = 15x + 20$$

Each t-shirt costs \$15,
plus a \$20 shipping fee.

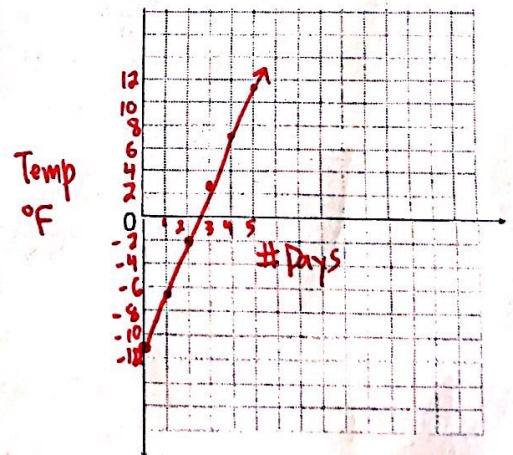
CSituation: (need table, graph, equation)

The temperature on Sunday was -11°F . But the temperature has risen 4.5°F each day since then.

$$y = -11 + 4.5x$$

$$y = 4.5x - 11$$

0	-11
1	-6.5
2	-2
3	2.5
4	7
5	11.5



D

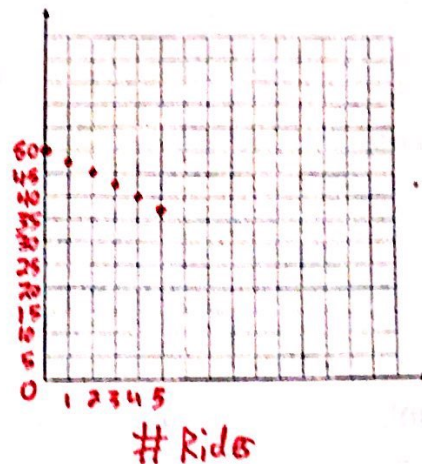
Equation: (need table, graph, situation)

$$y = 50 - 2.5x$$

X	Y
0	50
1	47.5
2	45
3	42.5
4	40
5	37.5

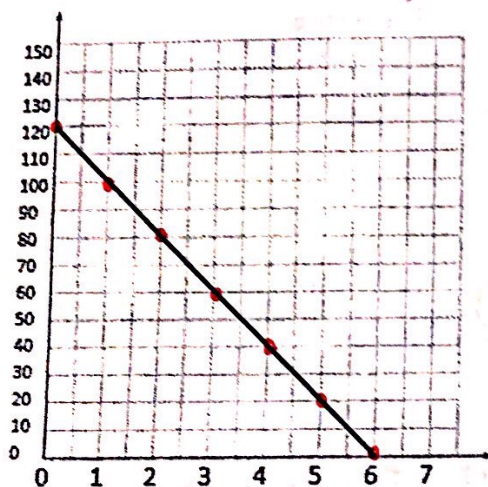
You have \$50, but you spend \$2.50 on each ride you go on.

Money left



E

Graph: (need table, equation, situation)



X	Y
0	120
1	100
2	80
3	60
4	40
5	20
6	0

$$y = -20x + 120$$

~~You have \$120, but you spend \$20 on~~

The temperature is 120°F, but it decreases 20°F per minute until it hits 0°.

F

Table: (need graph, equation, situation)

x	y
0	0
1	75
2	150
3	225
4	300
5	375

$$y = 75x$$

Each t-shirt costs \$75.

