

QUESTIONS FOR STUDENTS:

Fictitious example of Johnny Steele's account

Johnny Steele opens a bank account with birthday money totaling \$50. He adds \$10 per week. Complete the table.

Week	Money
0	\$50
1	\$60
2	
3	
4	

What is the change of money using the table for Johnny Steele?

What is the change of weeks using the table for Johnny Steele?

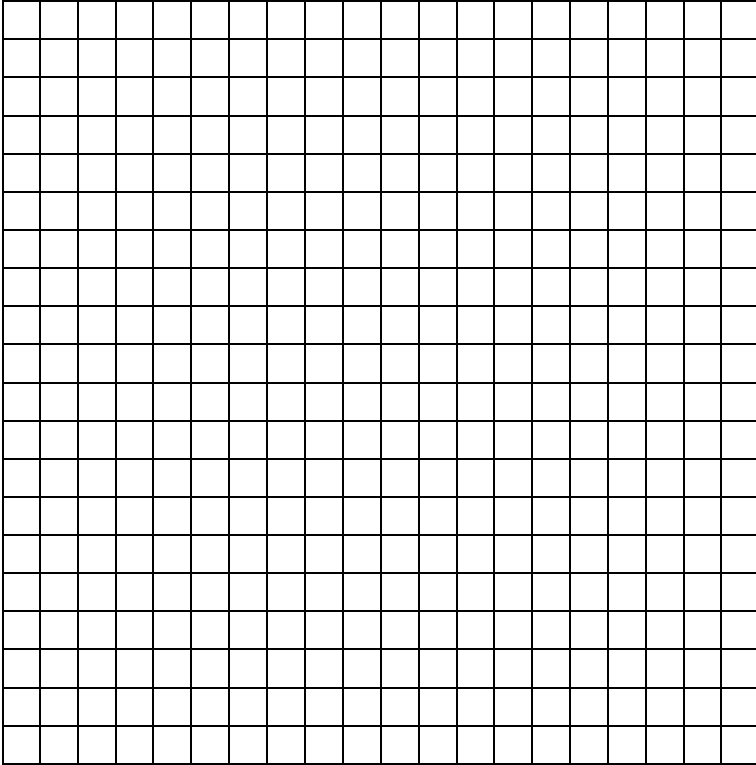
What is the overall change in money as the weeks change?

Does the overall change stay constant from week to week? Explain.

Graphing

Plot the coordinate points from the table onto the graph. Connect the points with a line.

Fictitious example of Johnny Steele's account



How can you tell the rate of change is constant by looking at the graphed line?

Slope = Rate of Change

How is the “weeks” column changing?

How is the “money” column changing?

How does the money change as the weeks change?

Fictitious Example of Jill's Account:

Weeks	Money
0	10
2	50

What story does the table tell about Jill's account?

How would you find the "rate of change" representing Jill's account?

How does the money change as the weeks change?

ASSESSMENT OPTIONS (constructed response)

You have \$211. Each week you earn \$20. You do not spend any money. Describe how your money will grow.

You have \$96. Everyday you spend \$3 at lunch. How many days will it take before your money runs out?

EXTENSIONS:

You have \$50 in the bank. You earn \$15 per week with lawn care service. You want to buy an X-Box 360 that costs \$299. Tax in Michigan is 6% (or \$.06 on one dollar). How many weeks before you can afford the game?