Name	Date	

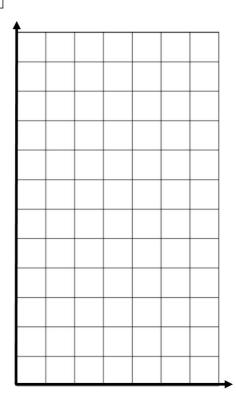
Multi-Step Problems in the Real World

Determine which variable is the independent variable and which variable is the dependent variable. Write an equation, make a table, and plot the points from the table on the graph.

Enoch can type 40 words per minute. Let w be the number of words typed and m be the number of minutes spent typing.

Independent variable _____

Dependent variable



1.	Caleb started saving me equation where w is the jar. Determine which we total amount in the coordinates	e number of weeks Cal variable is the independ	eb saves his money ar ent variable and whic	$nd\ t$ is th	e total a	mount i	n dollar	s in the	cookie
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2.	Kevin is taking a taxi from also pay \$1 per mile. Veride. Determine which than 6 miles.	Vrite an equation where	e m is the number of \imath	miles an	d t is the	total co	ost in do	llars of	he taxi
2.	also pay \$1 per mile. V ride. Determine which	Vrite an equation where	e m is the number of \imath	miles an	d t is the	total co	ost in do	llars of	he taxi
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apples cost $\$$ dollars, and a	1.50 per p \imath is the nu	ound. Wri	ite an equ	iation to sho	w the total	cost of th	ne produ	ce, whe	reT is t	he total	cos
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Aliyah is purc apples cost \$ dollars, and a graph the equ	1.50 per p \imath is the nu	ound. Wri	ite an equ	iation to sho	w the total	cost of th	ne produ	ce, whe	reT is t	he total	cos
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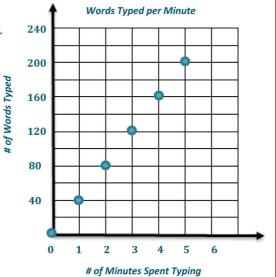
Determine which variable is the independent variable and which variable is the dependent variable. Write an equation, make a table, and plot the points from the table on the graph.

Enoch can type 40 words per minutes. Let w be the number of words typed and m be the number of minutes spent typing.

The independent variable is the number of minutes spent typing. The dependent variable is the number of words typed.

The equation is w = 40m.

# of Minutes	# of Words
0	0
1	40
2	80
3	120
4	160
5	200



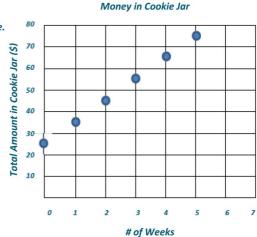
Caleb started saving money in a cookie jar. He started with \$25. He adds \$10 to the cookie jar each week. Write an equation where w is the number of weeks Caleb saves his money and t is the total amount in dollars in the cookie jar. Determine which variable is the independent variable and which is the dependent variable. Then, graph the total amount in the cookie jar for w being less than 6 weeks.

t = 10w + 25

The total amount, t, is the dependent variable.

The number of weeks, w, is the independent variable.

# of Weeks	Total Amount in Cookie Jar (\$)
0	25
1	35
2	45
3	55
4	65
5	75



2. Kevin is taking a taxi from the airport to his home. There is a \$6 flat fee for riding in the taxi. In addition, Kevin must also pay \$1 per mile. Write an equation where m is the number of miles and t is the total cost in dollars of the taxi ride. Determine which variable is independent and which is dependent. Then, graph the total cost for m being less than 6 miles.

$$t=1m+6$$

The total cost, t, is the dependent variable.

The number of miles, m, is the independent variable.

# of Miles	Total Cost (\$)
0	6
1	7
2	8
3	9
4	10
5	11



3. Anna started with \$10. She saved an additional \$5 each week. Write an equation that can be used to determine the total amount saved in dollars, t, after a given number of weeks, w. Determine which variable is independent and which is dependent. Then, graph the total amount saved for the first 8 weeks.

$$t = 5w + 10$$

The total amount saved, t, is the dependent variable.

The number of weeks, w, is the independent variable.

# of Weeks	Total Amount (\$)
0	10
1	15
2	20
3	25
4	30
5	35
6	40
7	45
8	50





4. Aliyah is purchasing produce at the farmers' market. She plans to buy \$10 worth of potatoes and some apples. The apples cost \$1.50 per pound. Write an equation to show the total cost of the produce, where T is the total cost, in dollars, and a is the number of pounds of apples. Determine which variable is dependent and independent. Then, graph the equation on the coordinate plane.

$$T = 1.50a + 10$$

The total cost is the dependent variable. The number of pounds of apples is the independent variable.

# of Pounds of Apples	Total Cost (\$)
0	10
1	11.50
2	13
3	14.50
4	16
5	17.50

Total Cost at the Farmers' Market

