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Relationship Between Variables

Study the example showing the relationship between variables with a table and an equation. Then solve problems 1-7.

Example

A music store sells sets of headphones for \$6. The table shows the relationship between the number of headphones the store sells, h, and the amount of money, m, the store earns from headphone sales. Write an Thursday on a reason of a topical equation that represents the amount of money the store earns from headphone sales.

Number of Headphones, h	0	1	2	3	4	5
Amount of Money, m (\$)	0	6	12	18	24	30

Use the table to write an equation.

amount of money	equals	price of each set of headphones	times	number of headphones
m	=	6		h

The equation is m = 6h.

Which is the dependent variable and which is the independent variable in the example? Explain.

- How much money does the store earn if the store sells 8 sets of headphones? Explain how to use the equation to find the answer.
- One week, the store earned \$60 in headphone sales. How many sets of headphones did the store sell? Can you use the equation to find the answer? Explain.

Solve.

Use the example problem to solve problems 4-7.

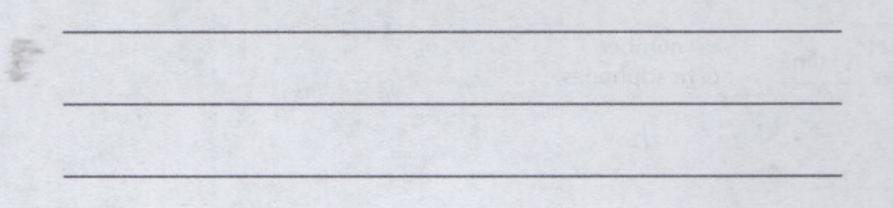
In the example, you explored how to represent a relationship with a table and an equation.

Number of Headphones, h	0	1	2	3	4	5
Amount of Money, m (\$)	0	6	12	18	24	30

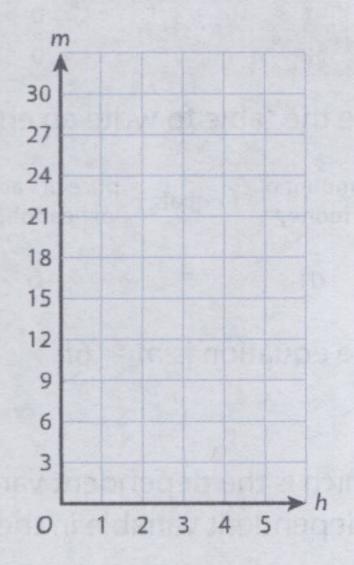
m = 6h

You can also represent the same situation with a graph.

- Think of h and m as x- and y-coordinates, and use the values from the table to write ordered pairs (h, m).
- Graph the ordered pairs. How do they show solutions to the equation m = 6h?



Which point represents the amount of money the store earns if the store sells 4 headphones? How do you know?



Sonia paid \$18 for headphones. How many sets of headphones did she buy? Explain how to use the graph to find the answer.