

Daily MCAS

2009, Mathematics - Grade 7

The list below shows the number of miles Sophie hiked on each of 7 days.

1.6, 3.1, 1.5, 2.0, 1.1, 1.8, 1.5

What was the least number of miles Sophie hiked in one day?

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The table below shows the relationship between t , the number of tickets to a school social, and c , the total cost, in dollars, of the tickets.

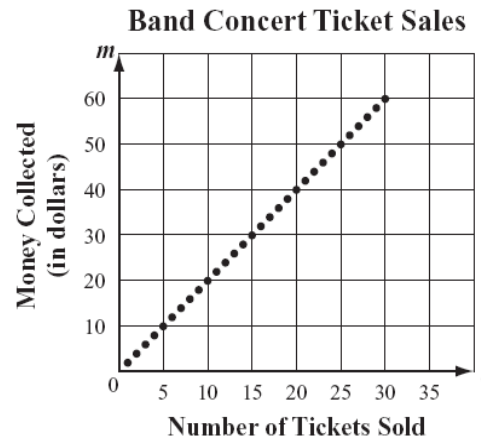
Number of tickets (t)	Total Cost in Dollars (c)
1	5
2	10
3	15
4	20

Write an equation that represents the relationship between t and c for the data shown in the table.

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The graph below shows the relationship between the number of tickets sold for a band concert and the amount of money, in dollars, collected from the sales of the first 30 tickets.



For the data in the graph, which of the following equations can be used to calculate m , the amount of money, in dollars, collected for t tickets sold?

A. $m = \frac{1}{2}t$

B. $m = 2t$

C. $m = 5t$

D. $m = 10t$

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The table below shows how many scoops of hot chocolate mix are needed in order to make different numbers of cups of hot chocolate.

Number of cups of hot chocolate (<i>c</i>)	Number of scoops of mix needed (<i>s</i>)
2	4
4	8
6	12
8	16

For the data in the table, which of the following equations can be used to calculate *s*, the number of scoops of hot chocolate mix needed to make *c* cups of hot chocolate?

- A. $S = 2 + c$ B. $s = 2c$ C. $s = \frac{c}{2}$ D. $s = \frac{2}{c}$

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What is the value of the expression below?

$$(6 - 3)^2$$