

Matching Functions Extension Practice

Objective: Highlight or underline the parts of the statement that are relevant to the equation or inequality. Match the given statement with an equation or inequality from the bottom.

<p>1 Julie started a pet-care business. She bought the necessary supplies for \$85. Julie charges \$25 per weekend for each pet she cares for. Which function represents her net profit in terms of x, for the number of pets she cares for?</p>	L
<p>2 Rosie has 25 dollars to spend at the mall. She buys a slice of pizza for \$5. Movie tickets are 8.50 each. She wants to buy movie tickets for herself and her friends to see a movie. Which function represents the number of movie tickets, x, which Rosie can buy?</p>	J
<p>3 Zack's stereo is playing at a volume of 85 decibels. If the decibel level reaches 125 decibels, the neighbors will complain. Which function models x, the number of decibels Zack can increase the volume before the neighbors complain?</p>	B
<p>4 Each month Megan's cable bill includes a \$25 basic fee plus a charge of \$8.50 for each "Pay-per-view" movie she watches. Which function represents the amount Megan pays for her cable bill each month in terms of x, the number of pay-per-view movies she buys?</p>	N
<p>5 Kayla bought a t-shirt for \$25 plus tax. The tax rate is 8.5%. Which function represents the total amount Kayla will pay for the shirt, if x represents the original cost of the t-shirt?</p>	D
<p>6 Jay works for a lawn-care company. He is paid \$8.50 per hour up to 40 hours a week. If he works more than 40 hours in a week, he is paid \$15 for each hour above the 40 hours. Which function represents Jay's salary in terms of x, the number of hours he works?</p>	I
<p>7 Lee has \$25 to spend on movie rentals and snacks for the weekend. He spends \$8.50 on popcorn and soda. If the movie store rents DVDs for \$5 each which function models x, the number of DVDs Lee is able to rent?</p>	E
<p>8 Jon received a cell phone for his birthday. His parents pay \$85 per month, plus 25¢ for each additional megabit of data he uses. Which function represents the amount of money Jon's parents pay each month for the cell phone?</p>	G

<p>9 Sally bought \$8.50 worth of candy at Wal-Mart plus 5% sales tax. Which function represents the total amount Sally will pay for the candy, if x represents the original cost of the candy?</p>	<p>M</p>
<p>10 Mark needs to raise at least \$25 to pay for a window he broke. He is raking the leaves in his yard to make the money. His mother will pay him \$8.50 plus \$5 for each bag of leaves he rakes. Which function represents the number of bags of leaves, x, that Mark must rake?</p>	<p>A</p>

A. $5x + 8.50 \geq 25$	B. $85 + x < 125$
C. $y = 15x + 8.5x$	D. $y = 25 + 0.085(25)$
E. $5x + 8.50 \leq 25$	F. $85 + x \geq 125$
G. $y = 0.25x + 85$	H. $y = 25x + 0.085(25)x$
I. $y = 8.50(40) + 15(x - 40)$	J. $5 + 8.50x \leq 25$
K. $y = 25x + 85$	L. $y = 25x - 85$
M. $y = 8.50 + 0.05(8.50)$	N. $y = 8.50x + 25$