

Linear Equations & Slope

Algebra

for Students.

Guided Practice Worksheet

What are Linear Equations?

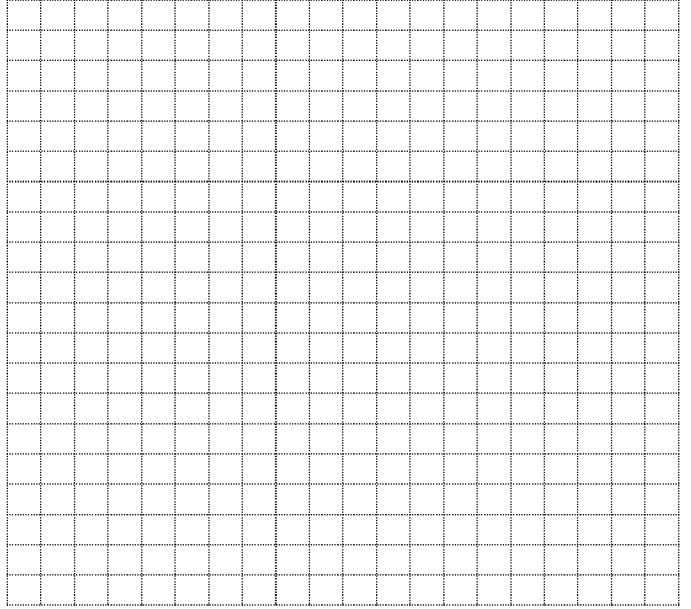
A rock-climbing facility offers lessons for \$20 per half-hour session, plus a full-day equipment rental of \$7.

1. Write a linear equation that represents the situation.

2. Use the linear equation to complete the table.

Number of Lessons	Total Cost (\$)
1	
2	
3	
4	
5	
6	
7	
8	

3. Use the information in the table to graph the linear equation.



4. Find the y -intercept of the linear equation. At what point does the linear equation cross the y -axis?

5. Determine the total cost of taking 10 half-hour rock-climbing lessons.

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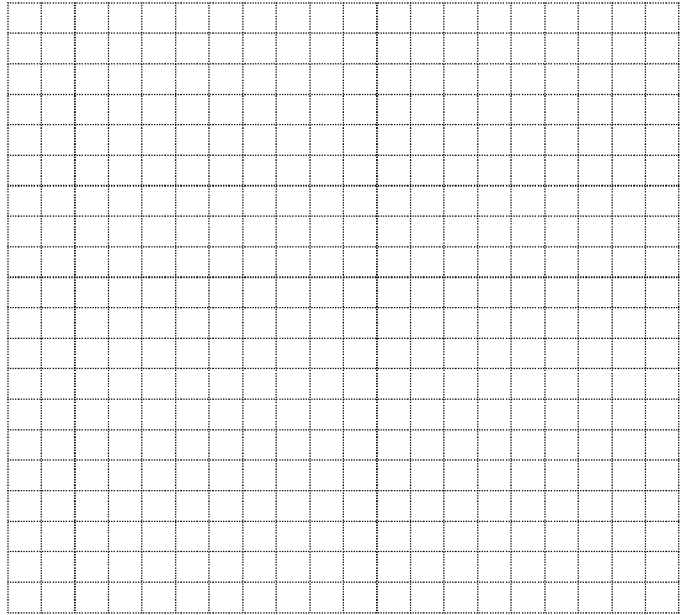
Graphing Linear Equations

The linear equation $y = 20x + 7$ represents the total cost of taking x half-hour rock-climbing lessons at \$20 per lesson, plus a full-day equipment rental of \$7.

1. How does the linear equation change if you have a coupon offering a \$5 discount on the full-day equipment rental?

2. How does the linear equation change if you have a coupon offering a \$2 discount on every half-hour lesson?

3. Graph the linear equations from Questions #1 and #2 and determine which coupon is the better deal.



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Using a Graph to Calculate the Slope of a Line

1. Find the slope of the line shown in the graph.

2. Use the slope to graph two additional points on the line.

