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## Lesson 5 Reteach

## Graph Proportional Relationships

A way to determine whether two quantities are proportional is to graph them on a coordinate plane. If the graph is a straight line through the origin, then the two quantities are proportional.

## Example 1

A racquetball player burns 7 Calories a minute. Determine whether the number of Calories burned is proportional to the number of minutes played by graphing on the coordinate plane.

Step 1 Make a table to find the number of Calories burned for $0,1,2,3$, and 4 minutes of playing racquetball.

| Time (min) | 0 | 1 | 2 | 3 | 4 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Calories Burned | 0 | 7 | 14 | 21 | 28 |

Step 2 Graph the ordered pairs on the coordinate plane. Then connect the ordered pairs.
Calories Burned Per Minute of Racquetball


The line passes through the origin and is a straight line. So, the number of Calories burned is proportional to the number of minutes of racquetball played.

## Exercise

1. Shontell spends $\$ 7$ a month plus $\$ 0.10$ per minute.

Determine whether the cost per month is proportional to the number of minutes by graphing on the coordinate plane.


