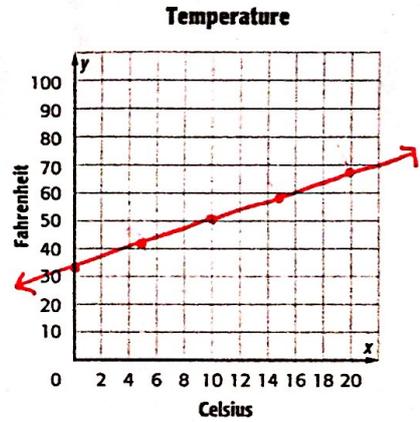NAME _____ DATE _____ PERIOD _____

## YOUR TURN

For Exercises 1 and 2, determine whether the relationship between the two quantities shown in each table are proportional by graphing on the coordinate plane.

1.

| Temperature (Degrees) | |
|---|---|
| Celsius | Fahrenheit |
| 0 | 32 |
| 5 | 41 |
| 10 | 50 |
| 15 | 59 |
| 20 | 68 |

Nonproportional (does not pass through the origin (0,0)).

**Temperature**

2.

| Popcorn | |
|---|---|
| Bags of Popcorn | Cost ($) |
| 0 | 0 |
| 1 | 4 |
| 2 | 8 |
| 3 | 12 |
| 4 | 16 |

Proportional

**Popcorn**
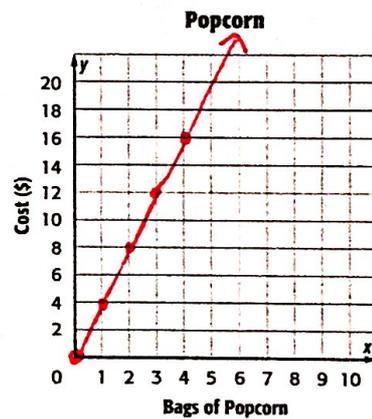
3. An online DVD rental company charges $15 a month for unlimited rentals. Determine whether the total paid after each month is proportional to number of months by graphing on the coordinate plane. (Make a table first)

| # of months | Cost ($) |
|---|---|
| 1 | $15 |
| 2 | $30 |
| 3 | $45 |
| 4 | $60 |

**Online DVD Rentals**
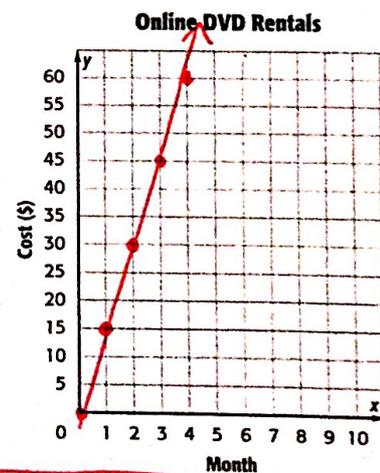
proportional

$$\frac{15}{1} = \frac{30}{2} > \frac{45}{3} = \frac{60}{4} = \$15 \text{ per month}$$

0 months = $0   (0,0)

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