

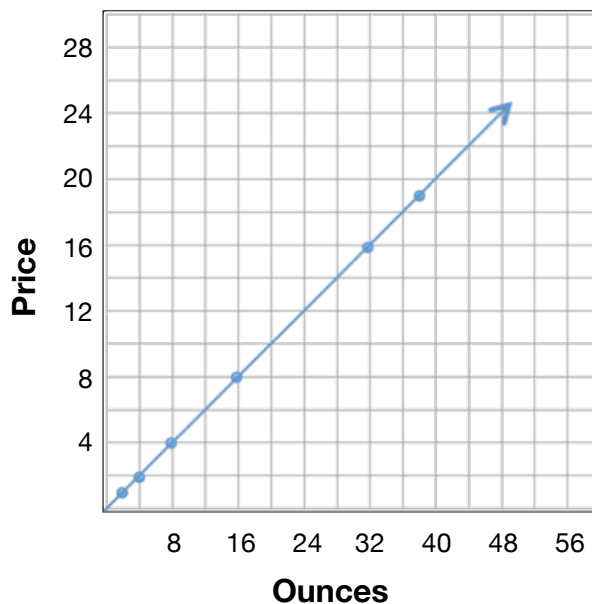


Use each of the following methods to solve the two problems shown below:

- Create a table
- Create a graph
- Write and solve an equation

1. Morgan bought trail mix at Roots Market that cost \$4.00 for 8 ounces. How much will it cost to buy 38 ounces?

Ounces	Price
8	\$4.00
16	\$8.00
32	\$16.00
4	\$2.00
2	\$1.00
38	\$19.00



2. Equation:

x: ounces y: price

$$y = 0.50x$$

$$y = (0.50)(38)$$

$$y = \$19.00$$

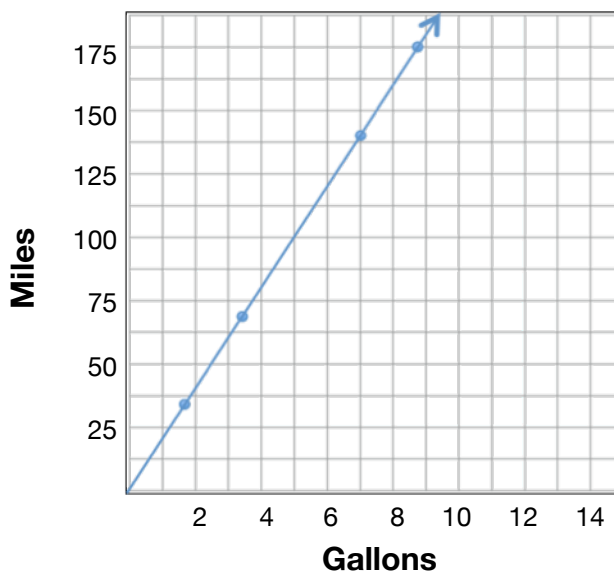
3. Explain why this is a proportional relationship.

This is a proportional relationship because the graph is a straight line that passes through the origin.



4. Colt drove 70 miles and used $3\frac{1}{2}$ gallons of gas. How many gallons will he use if he drives 175 miles?

Gallons	Miles
$3\frac{1}{2}$	70
7	140
$1\frac{3}{4}$	35
$8\frac{3}{4}$	175



5. Equation:
x: gallons of gas y: miles

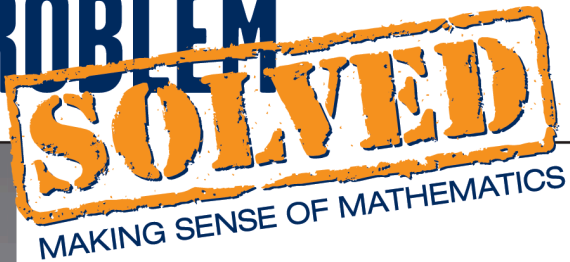
$$y = 20x$$

$$y = 20\left(8\frac{3}{4}\right)$$

$$y = 175$$

6. Explain why this is a proportional relationship.

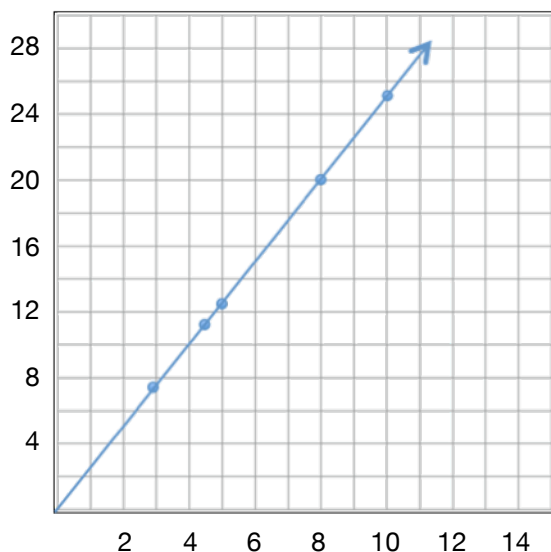
This is a proportional relationship because the graph is a straight line that passes through the origin.



Study the following table:

x	3	4.5	5	8	10
y	7.5	11.25	12.5	20	25

7. Create a graph to represent this data.



8. Write an equation showing the relationship between x and y .

$$y = 2.5x$$

9. Does this table represent a proportional relationship? Explain your reasoning.

The table represents a proportional relationship because y is always 2.5 times x .

10. Create an everyday problem to match the data.

Answers will vary.

Example: Helen bought 3 pounds of ground beef for \$7.50. If the cost is proportional to the pounds of ground beef bought, how much would 10 pounds cost?