1. Simplify the following:

$$\frac{3 \frac{1}{2}}{\frac{3}{4}}$$

The following table shows different sizes of cans of peanuts and their cost.

Cans of Peanuts

|  |  |
| --- | --- |
| Size (oz) | Cost ($) |
| 5 | 2.25 |
| 10 | 3.50 |
| 20 | 10.00 |

Which can size has the lowest unit cost? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. I can bake $\frac{3}{4}$ of a cake in 5 minutes. How much of the cake can I bake in 1 minute?

4. What 2 things MUST be true for a graph to be proportional?

5. Are the following ratios proportional? $\frac{150}{300}$ and $\frac{450}{600}$

6. If you can bake 26 cookies in 8 minutes, how many cookies can you bake in 32 minutes?

7. Does the following table show direct variation? \_\_\_\_\_\_\_\_\_\_\_ Find k \_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X | 4 | 6 | 7 | 9 |
| y | 12.8 | 19.2 | 22.4 | 28.8 |



8.

The following graph shows the relationship between the cost of
gas and distance traveled.

Find k: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. The actual distance between LA and San Francisco is 150 miles. The scale for the map is 1 cm = 40 miles. How far apart are the two cities on the map?

10. You can read $\frac{1}{3} $ of a book in $\frac{3}{5}$ of an hour. How much can you read in 1 hour?



11. Find the constant of proportionality in the table.
 Then find the equation in the y = kx form.