

Name _____ Date _____ Period _____

Math Homework 15

1. What is $\frac{4}{5}$ of 100? Show your steps.

2. Examine the relationship shown in the table.

x	0	3	4	5	10
y	0	5	$6\frac{2}{3}$	$8\frac{1}{3}$	$16\frac{2}{3}$

a. What is the constant of proportionality? Show how you know.

b. What is an equation that models this relationship?

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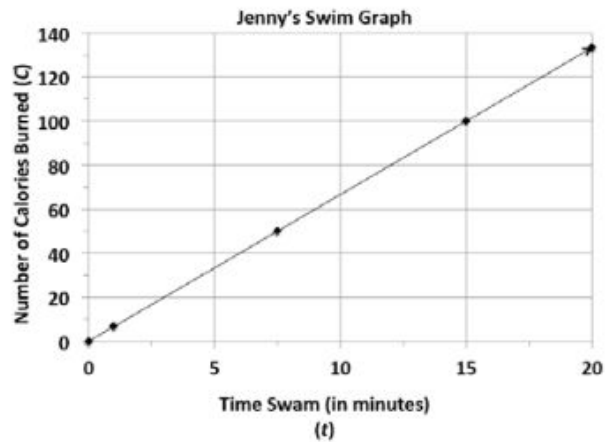
2. Examine the relationship shown in the table.

x	0	3	4	5	10
y	0	5	$6\frac{2}{3}$	$8\frac{1}{3}$	$16\frac{2}{3}$

c. What is the constant of proportionality? Show how you know.

d. What is an equation that models this relationship?

3. Jenny is a member of the swim team.
- Using the graph, how many calories does Jenny burn in 15 minutes?

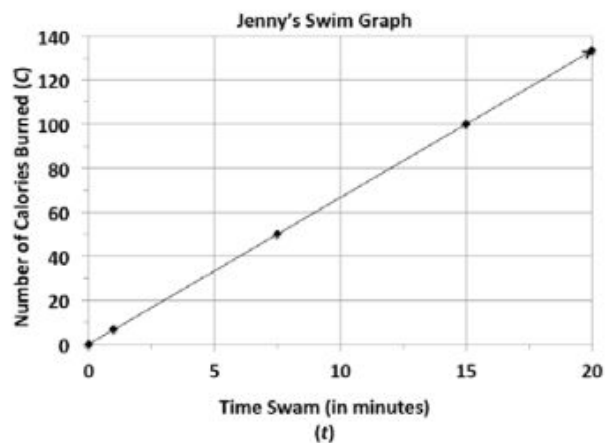


- Using your answer from part a, how many calories does Jenny burn in one minute?

c. Write an equation that models the number of calories burned (y) within a certain number of minutes (x).

- How long will it take her to burn off a 480-calorie smoothie she had for breakfast?

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