Name_	oth	How	
The state of the state of	No. of Concession, Name of Street, or other Designation, or other		

Chapter 4 Lesson 3 Solve Proportional Relationships

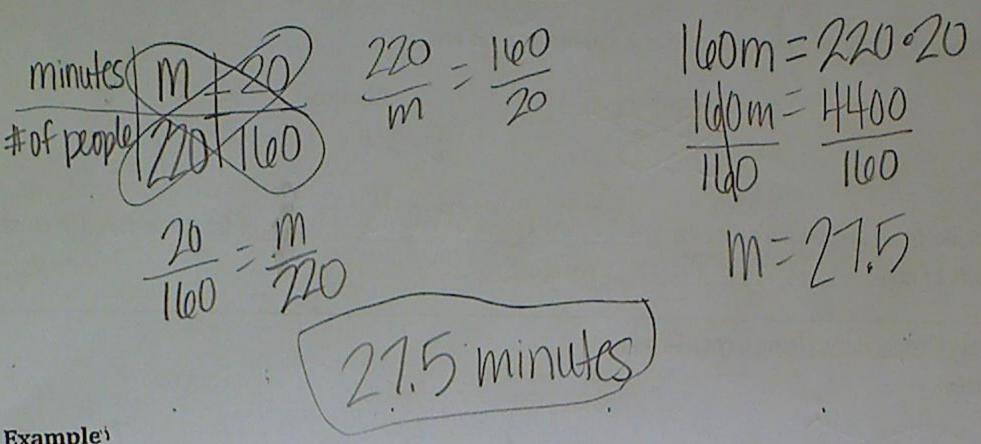
Student Objective: Students will be able to use proportions to solve problems.

What makes two quantities proportional?

A proportion is an equation stating that two ratios or rates are PULLIVILLUM.				
24 Numbers 24	Algebra			
	b ≠ 0, d ≠ 0			
The products ad and be are called the <u>Cross products</u> of this proportion. The cross products of any <u>proportion</u> are equal.				
Solving Proportions Using Cross Products				
Examples:				
	(7)			
a. X=3.6 b. 34	C. 3 = 21			
4.9 = 10×	= 34.5 06 7.21 = 3n			
36 = 10×	= 34.5 85 147 = 3n = 170 V 85			
10 2	2 n=49			
d. The ratio of 7th grade students to 8th grade students in a soccer league is 17:23. If there are 200 students in all,				
how many are in the 7th grade? 11 17 17 17 17 17 17 17 17 17 17 17 17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
othere are 85°	110 200 total 3400 = 40X			
You try: graders	x=85			
	ir. If you want to make the recipe for 14 people, about how			
many cups of flour should you use?	8x=14.3 you need 5.25			
people 8 4	8x=42 cups of flour			
Plour 3.	8 3 mts/			
2. Sheila mixed 3 ounces of blue paint with 2 ounces of	yellow paint. She decided to create 20 ounces of the			
same mixture. How many ounces of yellow paint does	Sheila need for the new mixture?			
WILLIAM TO THE TOTAL TO THE TOTAL TO	2.20 = 5x			
+181AI (5)	(4) 3号 X二X			
V				

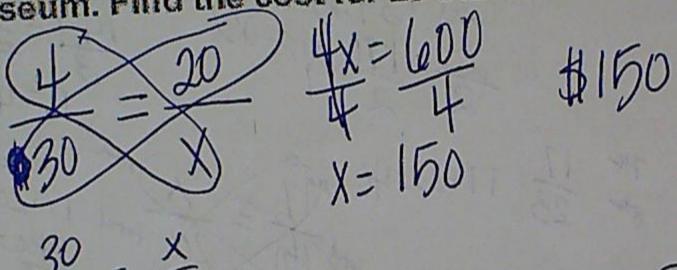
Example:

The wait time to ride a roller coaster is 20 minutes when 160 people are in line. At this rate, how long is the wait time when 220 people are in line?



Example

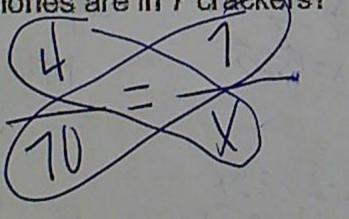
Mrs. Hidalgo paid \$30 for 4 students to visit an art museum. Find the cost for 20 students.



Example".

A serving of 4 crackers contains 70 Calories. How many

Calories are in 7 crackers?



122.5 calonies