

Name _____ Date _____

Lesson 7: Apply

CALCULATORS FOR YOUR SCHOOL

Four Function: \$240 for 20
 TI 30X: \$480 for 15
 TI Nspire: \$1200 for 10

The listed prices are for orders of 10, 15 and 20 calculators. But it's possible to figure the price for any number you want to purchase. One way to figure those prices is to build a *rate table*. A *rate table* is started below.

Number Purchased	1	2	3	4	5	10	15	20
Four function								\$240
TI 30X							\$480	
TI Nspire						\$1200		

Price of Calculators for Schools

- 1) Fill in prices for each type of calculator for orders of the sizes shown.
- 2) What is the cost per each type of calculator?

What arithmetic operation (addition, subtraction, multiplication or division) did you use to find the cost per calculator?

This cost per calculator is known as the **unit rate**. Why is called that?

3) Write an equation for each kind of calculator to show how to find the price for any number ordered.

4) How much does it cost to buy:

A) 53 four function calculators

B) 27 TI 30X calculators

C) 9 TI Nspire calculators

5) How many four function calculators can a school buy if it can spend \$384?
What if the school spend only \$72?

6) How many TI Nspire's calculators can a school buy if it can spend \$3240? What if the school can spend only \$840?

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Lesson 7 Homework

Franky's Trail Mix Factory gives customers the following information. Use the pattern in the table to answer the questions.

Caloric Content of Franky's Trail Mix

Grams of Trail Mix	Calories
50	150
150	450
300	900
500	
650	
900	

- A. Fiona eats 75 grams of trail mix. How many calories does she eat?

- B. Rico eats trail mix containing 100 calories. How many grams of trail mix does he eat?

- C. Write an equation that you can use to find the number of Calories in any number of grams of trail mix.

- D. Write an equation that you can use to find the number of grams of trail mix that will provide any given number of Calories.