

Graphing Calculator Lab

Ratio Tables

TI-73 Explorer

Main IDEA

Use technology to compare output/input ratios for functions.

You can use the CellSheet application on a TI-73 Explorer graphing calculator to compare the output/input ratios of real-world functions.

ACTIVITY

- 1 **MOVIES** The total cost of purchasing 1, 2, 3, 4, and 5 DVDs for \$19 each is found by multiplying the number of DVDs purchased by 19. Create a table to model this situation. Include a column that calculates the ratio of cost to DVDs.

STEP 1 Access List by pressing `LIST`.

STEP 2 Enter the numbers 1 through 5 into L₁, respectively. Then, `2nd STAT 1 × 19 ENTER`

STEP 3 Select L₃. `2nd STAT 2 ↓ 2nd 1STAT . ENTER`

L3	L4	L5	2
	19		
	38		
	57		
	76		
	95		

L2	L4	L5	2
1	19		
2	38		
3	57		
4	76		
5	95		

ANALYZE THE RESULTS

1. Does the 2-column table of values for DVDs and Cost form a ratio table? Explain your reasoning.
2. **CLOTHING** A store offers \$5 off any purchase over \$10. Create a graphing calculator table that models the total cost of purchasing \$11 through \$14 in clothing. Include a ratio column of cost : amount.
3. Does the 2-column table of values for the amount and cost form a ratio table? Explain your reasoning.

STUDY TIP

Cell Sheet To clear the sheet while in the CellSheet program, press [F5] to select Menu, 2 to select Edit, 3 to select Clear Sheet, and 2 to select Yes.