



# Calculating Sale Prices

## Student Activity

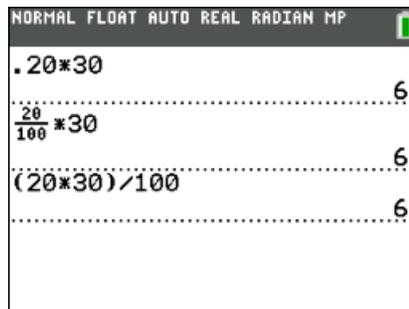
Name \_\_\_\_\_

Class \_\_\_\_\_

### Part 1 – A 20% Discount

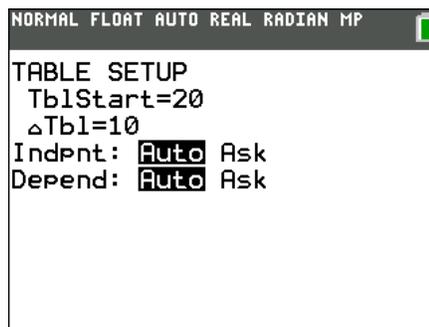
Your favorite sporting goods store is having a sale. Use your TI-84 Plus calculator to create a table that displays the discount and sale price for items originally costing \$20, \$30, \$40, etc., up to \$100 for a sale when all items are reduced by 20%.

- Using the TI-84 home screen, make a table for the 20 percent off sale. You can enter percent calculations in various ways. These are shown for \$30 at the right.



Original Price	20% off Discount	Sale Price
\$20		
\$30		
\$40		
\$50		
\$60		
\$70		
\$80		
\$90		
\$100		
x (any original price)		

- Write an equation for the amount of the discount. \_\_\_\_\_
- Write an equation for the sale price after the discount. \_\_\_\_\_
- Use the TI-84 Plus table feature to make a table for the 20 percent off sale. Enter the “amount of discount” equation in Y1 and the “sale price” equation in Y2. Press **[ENTER]** to enter the equations. Then press **[2nd]** **[TBLSET]** and enter the settings at the right to set up the table. Then press **[2nd]****[TABLE]** to view the table.





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5. What would the discount be for an item that was originally \$40? \_\_\_\_\_
6. What would the sale price be for an item that was originally \$60? \_\_\_\_\_
7. What was the original price for an item that is \$72 during the sale? \_\_\_\_\_
8. How can you find the sale price for an item that originally cost \$25?  
\_\_\_\_\_
9. How can you find the sale price for an item that originally cost \$42?  
\_\_\_\_\_

### Part 2 – The Sale Gets Greater

10. Now make a table for a 40% off sale.

Original Price	40% off Discount	Sale Price
\$20		
\$30		
\$40		
\$50		
\$60		
\$70		
\$80		
\$90		
\$100		
x (any original price)		

11. How did you change the original equations (Y1 and Y2) to create the second table?  
\_\_\_\_\_
12. What would the discount be for an item that was originally \$40? \_\_\_\_\_
13. What would the sale price be for an item that was originally \$60? \_\_\_\_\_
14. What was the original price for an item that is \$72 during the sale? \_\_\_\_\_
15. How can you find the sale price for an item that originally cost \$25?  
\_\_\_\_\_
16. Suppose you have \$24.50 to spend. Find the original price for the most expensive item you can afford during the 40% off sale. \_\_\_\_\_
17. Write a one-step rule to find the sale price for any item during a 40% off sale, using x as the original price. \_\_\_\_\_