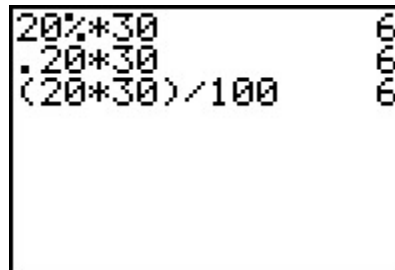


Problem 1 – A 20% Discount

Your favorite sporting goods store is having a sale. Use your TI-73 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-73 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-73 table feature to make a table for the 20 percent off sale. Enter the “amount of discount” equation in Y1 and the “sale price” in Y2. Press & to enter the equations.

Then press \rightarrow and enter the settings at the right to set up the table.





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?

Problem 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 (Y_1 and Y_2) 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.
