

Jake's Sporting Goods is having a sale. Use your 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%.

Original Price	20% Discount	Sale Price	
\$20			1. What would the discount be for an item that was originally \$40?
\$30			2. What would the sale price be for an item that was originally \$60?
\$40			3. What was the original price for an item you can buy for \$72 during this sale?
\$50			
\$100			4. How can you find the sale price for an item that originally cost \$25?
x (any original price)			5. How can you find the sale price for an item that originally cost \$42?

Repeat your steps for a sale when all items are reduced by 40%.

Original Price	40% Discount	Sale Price	
\$20			6. What would the discount be for an item that was originally \$40?
\$30			7. What would the sale price be for an item that was originally \$60?
\$40			8. What was the original price for an item you can buy for \$72 during this sale?
\$50			
\$100			9. How can you find the sale price for an item that originally cost \$25?
x (any original price)			10. How can you find the sale price for an item that originally cost \$42?

11. Suppose you have \$24.50 to spend. Find the original price of the most expensive item you can afford during the 40% off sale.
12. Write a one-step rule to find the sale price for any item during a 40% off sale, using  $x$  as the original price.