

PERCENT SHOPPING



Two brothers, Alex and Hector, went shopping after school one day. Each had earned \$85 from mowing yards after school. Before going to the register, Alex and Hector had to calculate the total price of their purchases and then compute a 5% sales tax to make sure they had not spent more than their \$85 limit. Below is a list of the original prices and the percentage or fractional discount for each item. Find the sale price for each item and total cost with tax to help Alex and Hector determine if they selected items whose total cost is less than \$85. Explain how you know.

Alex	Hector
Pants: \$40, on sale for 20% off	Sweatshirt: \$30, on sale for $\frac{1}{4}$ off
Shirt: \$30, on sale for $\frac{1}{3}$ off	Jeans: \$44, on sale for 20% off
Shoes: \$35, on sale for 10% off	Shirt: \$33, on sale for $\frac{1}{3}$ off