Example 4

$$\frac{\text{change}}{\text{orig}} = \frac{p}{\text{IDD}} \qquad \frac{25}{\text{IDD}} = .25$$

Luke wants to purchase a new TI-84 graphing calculator at Staples. It costs \$130, and there is a sale for 25% off. What is the price that Luke will pay?

What is 25% of \$130?

$$x = .25$$
 • 130
 $\chi = $32.50 \leftarrow discount$
\$130.00
 $\frac{$130.00}{32.50}$

Example 5



Tim bought a pair of running shoes for \$75. There was a 6% sales tax. Find the tax and the total price that Tim paid.

What (is) 6% of \$75?

$$X = .06 \cdot .75$$

 $X = $4.50 \leftarrow .50$
 $4.50 \leftarrow .50$
 $4.50 \leftarrow .50$

Example 6

Allie is purchasing a new laptop that originally costs \$599. She is getting a 15% student discount and has to pay a 7% sales tax.

Sales box

Sales box

What (is) 7% of \$509.15?

$$X = .07 \cdot 509.15$$
 $X = \frac{4}{35} \cdot 64$

\$500.15

 $+ 35 \cdot 64$

\$544.79