

Real-Life Career Activity**Securities Researcher**

Securities researchers find and give information to stock brokers so that the brokers can buy and sell stocks wisely. To find out more about a company, a securities researcher can read the company's annual report, attend the company's presentations, and compare the company's performance with the performance of its competitors. A securities researcher usually researches companies in only one field, such as pharmaceutical manufacturing. By focusing on one field, the researcher can draw better conclusions about the success of a company in that field.



Because securities researchers make decisions about financial data, they use math. Suppose one share of a company's stock cost \$25.43 on January 1. On April 1, the price of a share of the stock was \$26.39. The researcher compares the two amounts to see whether the share price has increased or decreased. The price of \$26.39 is greater, so the share price has increased since January 1.

$$26.39 - 25.43 = 0.96$$

The share price has increased \$0.96 since January 1.

Suppose a share price is \$33.15 on April 1, and \$31.21 on July 1. By how much has the share price changed?

The share price was greater on April 1, so the price has decreased.

$$33.15 - 31.21 = 1.94$$

The share price has decreased \$1.94.

Solve.

1. Calculate the change in the share price if a share costs \$32.56 on July 1 and \$34.22 on October 1.
2. Calculate the change in the share price if a share costs \$45.31 on April 1 and \$42.98 on July 1.
3. Calculate the share price on April 1 if a share costs \$16.88 on January 1 and the price increases \$2.14 by April 1.