math Antics
Exercises

Name:

Date:

Calculating Percent Change

1 If you have $100 and then get $40 more, what is the percent change?

+40%

(or a 40% increase)

2 If you have $100 and then lose $25, what is the percent change?

-25%

(or a 25% decrease)

3 If you have $80 and then get $20 more, what is the percent change?

$$\text{\% change} = \frac{20}{80} \times 100$$

$$= 0.25 \times 100$$

$$= +25\%$$

4 If you have $75 and then lose $25, what is the percent change?

$$\text{\% change} = \frac{-25}{75} \times 100$$

$$= -0.333 \times 100$$

$$= -33.3\%$$

5 On Sunday, the high temperature was 71° F, but on Monday it was 5° F lower. What was the percent change?

$$\text{\% change} = \frac{-5}{71} \times 100$$

$$= -0.070 \times 100$$

$$= -7\%$$

6 A deli sold 230 sandwiches one day, but the next day they sold an additional 35 sandwiches. What was the percent change from the previous day?

$$\text{\% change} = \frac{35}{230} \times 100$$

$$= 0.152 \times 100$$

$$= +15.2\%$$

7 A mechanic repaired 12 cars one day, but the next day they repaired 7 cars. What was the percent change?

$$\text{change} = 7 - 12 = -5$$

$$\text{\% change} = \frac{-5}{12} \times 100$$

$$= -0.417 \times 100$$

$$= -41.7\%$$

8 A bakery sold a total of 42 pies one day, but the next day they sold a total of 50 pies. What was the percent change in daily pie sales?

$$\text{change} = 50 - 42 = 8$$

$$\text{\% change} = \frac{8}{42} \times 100$$

$$= 0.190 \times 100$$

$$= +19\%$$

See Video for step-by-step solutions to each problem.