

Name _____

Practice: Percent of Change and Percent Error

Find the percent of change in the following problems:

1) Before: 10

After: 12

2) 5:00 - \$60

8:00 - \$90

Find the percent error in the following problems:

3) Estimate - \$90

Actual - \$120

4) Estimate - 450

Actual - 120

Solve the problem and show the work.

5) Mary bought a shirt for \$25 yesterday and today it cost \$18. What is the percent decrease?

6) The students predicted that there were 180 orange beads in the container, but there were 206. What is the percent error?

- 7) Billy calculates the cost of a book to be \$80. The actual price was \$86. What is Billy's percent error?
- 8) Sandy's math class had 44 students yesterday. She miscounted the class total and recorded it as 30 students. What is Sandy's percent error?
- 9) Joe wants to buy a Valentine's card for his girlfriend. He saves \$4.50 because he thinks that is how much the card will cost, but the actual price was \$3.50. What is Joe's percent error?
- 10) Mary decreased her time in the mile walk from 30 minutes to 24 minutes. What was the percent of change?

11) I estimated that I needed 5 gallons of water to fill the basin but I only needed 3.25 gallons. What was my percent error?

12) Charlie was born at 7 pounds and he now weighs 7.4 pounds. What is the percent of increase in his weight?

13) The Girl Scout troop thought they would sell 225 boxes of cookies, but they actually sold 520. What is the percent error?

- 14) The Girl Scout troop sold 225 boxes of cookies in January and 295 boxes in February. What was the percent increase in the number of boxes sold?
- 15) Mr. Blake bought a car for \$9300 and sold it for \$7500. What is the percent of decrease?