Name _____ Class _____ Date _____

2-10 Practice

Form K

Change Expressed as a Percent

Tell whether each percent change is an increase or decrease. Then find the percent change. Round to the nearest percent.

1. Original amount: 25
New amount: 18
decrease; 28%

2. Original amount: 48
New amount: 72
increase; 50%

3. Original amount: 178
New amount: 136
decrease; 24%

4. Original amount: 17
New amount: 15
decrease; 12%

5. Original amount: 45
New amount: 60
increase; 33%

6. Original amount: 95
New amount: 90
decrease; 5%

7. A store sells a running suit for $35. Joey found the same suit online for $29. What is the percent decrease to the nearest percent? **17%**

8. An online auction store started the bid on an item at $19. The item sold for $49. What was the percent increase to the nearest percent? **158%**

9. The original price for a motorcycle was $11,000. The sale price this week is $9799. What is the percent decrease to the nearest percent? **11%**

Find the percent error in each estimation. Round to the nearest percent.

10. You estimate that a tree is 45 ft tall. It is actually 58 ft tall. **22%**

11. A carpenter estimates the wall is 20 ft tall. The wall is actually 18 ft tall. **11%**

Name _____ Class _____ Date _____

2-10 Practice (continued) *Form K*

Change Expressed as a Percent

A measurement is given. Find the minimum and maximum possible measurements.

12. A patient weighs 178 lb to the nearest quarter pound. **177.75 lb; 178.25 lb**

13. A board is cut to 28 in. to the nearest half in. **27.75 in.; 28.25 in.**

Find the percent change. Round to the nearest percent.

14. \$158.49 to \$149.99 **5%**

15. $29\frac{1}{2}$ oz to $23\frac{1}{4}$ oz **21%**

16. $12\frac{1}{4}$ hr to $13\frac{1}{2}$ hr **10%**

17. 7 in. to $12\frac{1}{2}$ in. **79%**

The measured dimensions of a rectangle are given to the nearest whole unit. Find the minimum and maximum possible areas of each rectangle.

18. 25 in. by 22 in.
526.75 in.^{2}; 573.75 in.^{2}

19. 5 m by 7 m
29.25 m^2; 41.25 m^2

The measured dimensions of a shape are given to the nearest whole unit. Find the greatest percent error of each shape.

20. The perimeter of a rectangle with length 15 cm and width 21 cm. **3%**

21. The area of a triangle with base length 32 in. and height 25 in. **4%**