

2-10**Practice**

Form G

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: 10 New amount: 12 | 2. Original amount: 72 New amount: 67 | 3. Original amount: 36 New amount: 68 |
| | | |
| 4. Original amount: 23 New amount: 25 | 5. Original amount: 83 New amount: 41 | 6. Original amount: 19 New amount: 30 |
| | | |
| 7. Original amount: 38 New amount: 45 | 8. Original amount: 16 New amount: 11 | 9. Original amount: 177 New amount: 151 |
| | | |

- 10.** The price of the truck was advertised as \$19,900. After talking with the salesperson, Jack agreed to pay \$18,200 for the truck. What is the percent decrease to the nearest percent?
- 11.** The Ragnier's purchased a house for \$357,000. They sold their home for \$475,000. What was the percent increase to the nearest percent?
- 12.** The original price for a gallon of milk is \$4.19. The sale price this week for a gallon of milk is \$2.99. What is the percent decrease to the nearest percent?

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

- 13.** You estimate that a building is 20 m tall. It is actually 23 m tall.
- 14.** You estimate the salesman is 45 years old. He is actually 38 years old.
- 15.** You estimate the volume of the storage room is 800 ft^3 . The room's volume is actually 810 ft^3 .

2-10 Practice (continued)

Form G

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

16. A nurse measures a newborn baby to be 22 in. long to the nearest in.

17. A bag of apples weighs 4 lbs to the nearest lb.

18. Fencing sections come in lengths of 8 ft to the nearest foot.

Find the percent change. Round to the nearest percent.

19. 16m to $11\frac{1}{4}$ m

20. 76ft to $58\frac{1}{2}$ ft

21. $215\frac{1}{2}$ lb to $133\frac{1}{4}$ lb

22. \$42.75 to \$39.99

23. \$315.99 to \$499.89

24. \$5762.76 to \$4999.99

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

25. 4 cm by 7 cm

26. 16 ft by 15 ft

27. 5 m by 12 m

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

28. The perimeter of a rectangle with length 127 ft and width 211 ft.

29. The area of a rectangle with length 14 in. and width 11 in.

30. The volume of a rectangular prism with length 22 cm, width 36 cm, and height 19 cm.