

NAME _____ DATE _____ PERIOD _____

Lesson 4 Skills Practice

Percent of Change

Find the percent of change. Round to the nearest tenth, if necessary. Then state whether the percent of change is an *increase* or *decrease*.

1. from 12 m to 18 m
2. from 27 days to 30 days
3. from \$48.50 to \$38.80
4. from 25 lb to 12 lb
5. from 10 mm to 3 mm
6. from \$875 to \$1000
7. from \$18.10 to \$22.50
8. from 32 people to 3040 people
9. from 28 stray cats to 5 stray cats
10. from 12 words to 90 words

Find the percent error.

11. actual speed: 38 mph, estimated speed: 35 mph
12. estimated length: 45 cm; actual length: 50 cm
13. projected growth: 2 inches, actual growth 3 inches
14. estimated weight: 200 pounds, actual weight: 230 pounds
15. actual cost: \$75, estimated cost: \$66
16. actual capacity: 16 quarts, estimated capacity 13 quarts
17. actual time: 58 minutes, projected time: 45 minutes
18. actual distance: 100 yards, estimated distance 85 yards
19. estimated mass: 300 kilograms, actual mass: 284 kilograms
20. actual length: 35 centimeters, estimated length 36 centimeters

NAME _____ DATE _____ PERIOD _____

Lesson 5 Skills Practice

Discount and Markup

Find the selling price for each item given the cost and the percent of the markup or discount.

1. necklace: \$30; 25% markup
2. scooter: \$15; 55% markup
3. tennis shoes: \$48; 10% discount
4. computer: \$200; 36% markup
5. watch: \$22.50; 50% markup
6. video game: \$40; 28% discount
7. jeans: \$18; 33% markup
8. car: \$16,000; 10% markup
9. purse \$120; 15% discount
10. shoes: \$25; 10% markup
11. charm bead; \$60; 40% discount
12. belt: \$40; 10% discount
13. shirt: \$15; 8% markup
14. backpack: \$35; 12% markup
15. book: \$39; 20% discount
16. waffle iron: \$28; 18% markup
17. earrings: \$12; 5% discount
18. football ticket: \$135; 3% markup
19. recliner: \$275; 10% discount
20. baseball glove: \$80; 20% discount

Lesson 4 Skills Practice**Percent of Change**

Find the percent of change. Round to the nearest tenth, if necessary. Then state whether the percent of change is an *increase* or *decrease*.

- | | |
|--|--|
| 1. from 12 m to 18 m
50%; increase | 2. from 27 days to 30 days
11.1%; increase |
| 3. from \$48.50 to \$38.80
−20%; decrease | 4. from 25 lb to 12 lb
−52%; decrease |
| 5. from 10 mm to 3 mm
−70%; decrease | 6. from \$875 to \$1000
14.3%; increase |
| 7. from \$18.10 to \$22.50
24.3%; increase | 8. from 32 people to 3040 people
9400%; increase |
| 9. from 28 stray cats to 5 stray cats
−82.1%; decrease | 10. from 12 words to 90 words
650%; increase |

Find the percent error.

- actual speed: 38 mph, estimated speed: 35 mph **8.6%**
- estimated length: 45 cm; actual length: 50 cm **10%**
- projected growth: 2 inches, actual growth 3 inches **33.3%**
- estimated weight: 200 pounds, actual weight: 230 pounds **13.0%**
- actual cost: \$75, estimated cost: \$66 **12%**
- actual capacity: 16 quarts, estimated capacity 13 quarts **18.8%**
- actual time: 58 minutes, projected time: 45 minutes **22.4%**
- actual distance: 100 yards, estimated distance 85 yards **15%**
- estimated mass: 300 kilograms, actual mass: 284 kilograms **5.6%**
- actual length: 35 centimeters, estimated length 36 centimeters **2.9%**

Lesson 5 Skills Practice**Discount and Markup**

Find the selling price for each item given the cost and the percent of the markup or discount.

- | | |
|---|--|
| 1. necklace: \$30; 25% markup
\$37.50 | 2. scooter: \$15; 55% markup
\$23.25 |
| 3. tennis shoes: \$48; 10% discount
\$43.20 | 4. computer: \$200; 36% markup
\$272 |
| 5. watch: \$22.50; 50% markup
\$33.75 | 6. video game: \$40; 28% discount
\$28.80 |
| 7. jeans: \$18; 33% markup
\$23.94 | 8. car: \$16,000; 10% markup
\$17,600 |
| 9. purse \$120; 15% discount
\$102 | 10. shoes: \$25; 10% markup
\$27.50 |
| 11. charm bead; \$60; 40% discount
\$36 | 12. belt: \$40; 10% discount
\$36 |
| 13. shirt: \$15; 8% markup
\$16.20 | 14. backpack: \$35; 12% markup
\$39.20 |
| 15. book: \$39; 20% discount
\$31.20 | 16. waffle iron: \$28; 18% markup
\$33.04 |
| 17. earrings: \$12; 5% discount
\$11.40 | 18. football ticket: \$135; 3% markup
\$139.05 |
| 19. recliner: \$275; 10% discount
\$247.50 | 20. baseball glove: \$80; 20% discount
\$64 |