

3.1 Application Problems

Solve.

1. The manager of a garden supply store buys a 50-foot rubber hose for \$12. A markup rate of 35% is used. What is the selling price?

\$16.20

3. A shoe store uses a markup rate of 45%. One pair of shoes has a selling price of \$72.50. Find the cost of the shoes.

\$50

5. The cost to a furniture manufacturer for making a kitchen chair is \$15. The manufacturer then sells the chair for \$24. What is the markup rate?

60%

7. The meat manager at a market uses a markup rate of 22%. What is the selling price for a steak which costs \$2.50?

\$3.05

9. A restaurant serves a breakfast for \$1.75. The restaurant's cost to make the breakfast is \$1.00. What is the markup rate?

75%



11. The cost to a car dealer for a car is \$5696. The selling price of the car is \$8900. What is the markup rate?

56.25%

2. A bookstore buys a paperback book for \$3 and uses a markup rate of 20%. Find the selling price of the book.

4. The selling price for a gallon of ice cream is \$6.57. The markup rate used by the ice cream store is 46%. Find the cost of the ice cream.

6. The manufacturer's cost for a car air conditioner is \$300. The manufacturer then sells the air conditioner for \$450. What is the markup rate?

8. A pen and pencil set costs a retailer \$15. Find the selling price when the markup rate is $66\frac{2}{3}\%$.

10. The selling price for a silk jacket is \$200. The cost to the clothing store for the jacket is \$125. What is the markup rate?

12. The cost to an appliance dealer for a refrigerator is \$483. The dealer sells the refrigerator for \$920. What is the markup rate? Round to the nearest hundredth of a percent.

3.2 Application Problems

Solve.

13. A hair dryer which regularly sells for \$28 is on sale for 20% off the regular price. Find the sale price.

\$ 22.40

15. The sale price of a desk lamp is \$26, which is 20% off the regular price. Find the regular price.

\$ 32.50

17. A box of stationery which regularly sells for \$4 is on sale for \$3. Find the discount rate.

25%

19. A gas barbecue is on sale for \$200. This is $33\frac{1}{3}\%$ off the regular price. Find the regular price.

\$ 300

21. A children's gym set, which regularly sells for \$130, is on sale for \$96.20. Find the discount rate.

26%



23. A cabin tent, which regularly sells for \$129, is on sale for \$99. Find the discount rate to the nearest tenth of a percent.

23.3%

14. A briefcase is on sale for \$68, which is 25% off the regular price of \$85. Find the sale price.

16. The sale price for a car tire is \$35.75, which is 45% off the regular price. Find the regular price.

18. An art print which regularly sells for \$50 is on sale for \$40. Find the discount rate.

20. During a "Going-Out-of-Business" sale, a clothing store reduced all items 60%. What was the regular price of an umbrella which was on sale for \$7.20?

22. A radio with cassette recorder, which regularly sells for \$60, is on sale for \$37.80. Find the discount rate.

24. A portable television set, which regularly sells for \$139, is on sale for \$89.90. Find the discount rate to the nearest tenth of a percent.