

## Practice 6-9 Markup and Discount

Find each sale price. Round to the nearest cent where necessary.

	Regular Price	Percent of Discount	Sale Price
1.	\$46	25%	\$34.5
2.	\$35.45	15%	\$30.13
3.	\$174	40%	\$104.4
4.	\$1.40	30%	\$.98
5.	\$87	50%	\$43.5
6.	\$675	20%	\$540

Practice

Find each selling price. Round to the nearest cent where necessary.

	Cost	Percent Markup	Selling Price
7.	\$5.50	75%	\$9.63
8.	\$25	50%	\$37.5
9.	\$170	85%	\$314.5
10.	\$159.99	70%	\$271.98
11.	\$12.65	90%	\$24.04
12.	\$739	20%	\$886.8

13. A company buys a sweater for \$14 and marks it up 90%. It later discounts the sweater 25%.
- Find the selling price of the sweater after markup.  
\$26.6
  - How much was the discount?  
\$6.65
  - Find the sale price after the discount.  
\$19.95
  - The company's profit on the sweater can be found by subtracting the final selling price minus the cost. What was the company's profit on the sweater?  
\$5.95
  - The profit was what percent of the cost?  
 $\frac{5.95}{14} = 42.5\%$

# EXERCISES

For more exercises, see *Extra Practice*.

## Practice and Problem Solving

**A** Practice by Example For Exercises 1–5, find each markup.

Example 1  
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- |                        |        |                        |         |
|------------------------|--------|------------------------|---------|
| 1. cost: \$1.50        | \$1.05 | 2. cost: \$38          | \$22.04 |
| percent of markup: 70% |        | percent of markup: 58% |         |
| 3. cost: \$111.00      | \$55.5 | 4. cost: \$18          | \$6.3   |
| percent of markup: 50% |        | percent of markup: 35% |         |

5. Beach Gear A beach store pays \$11.40 for each beach umbrella. The store's percent of markup is 75%. \$8.55

Example 2  
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For Exercises 6–10, find each selling price.

- |                         |          |                        |         |
|-------------------------|----------|------------------------|---------|
| 6. cost: \$6            | \$10.5   | 7. cost: \$2.66        | \$3.99  |
| percent of markup: 75%  |          | percent of markup: 50% |         |
| 8. cost: \$149.99       | \$299.98 | 9. cost: \$67.20       | \$73.92 |
| percent of markup: 100% |          | percent of markup: 10% |         |

10. Clothing A clothing store pays \$15 for a shirt. The percent of markup is 85%. \$27.75

Example 3  
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For Exercises 11–15, find each discount and sale price.

- |                          |                            |
|--------------------------|----------------------------|
| 11. regular price: \$100 | 12. regular price: \$24.50 |
| percent of discount: 27% | percent of discount: 20%   |
| \$27 ; \$73              | \$4.9 ; \$19.6             |
| 13. regular price: \$700 | 14. regular price: \$8.49  |
| percent of discount: 30% | percent of discount: 5%    |
| \$210 ; \$490            | \$0.42 ; \$8.07            |

15. Footwear Boots, regularly \$125, are on sale for 30% off. \$37.5 ; \$87.5

**B** Apply Your Skills

Find each selling price. Where necessary, round to the nearest cent.

- |                          |         |                            |         |
|--------------------------|---------|----------------------------|---------|
| 16. regular price: \$180 | \$108   | 17. regular price: \$14.99 | \$12.74 |
| percent of discount: 40% |         | percent of discount: 15%   |         |
| 18. cost: \$9.99         | \$15.98 | 19. cost: \$15             | \$17.25 |
| percent of markup: 60%   |         | percent of markup: 15%     |         |

20. Shopping An \$11 shirt is on sale for 10% off.  
a. Describe two different methods of finding the sale price.  
b. Use one of the methods to find the sale price.

21. Video Sales Store A is selling a video for 20% off the store's regular price of \$25.95. Store B is selling the same video for 30% off the store's regular price of \$29.50. Which store's sale price is lower? How much lower is it? Store B ; \$11

22. Writing in Math Identical sweaters are on sale in two different stores. The sale price in Store A is 30% off the regular price of \$25. The sale price in Store B is 40% off the regular price of \$30. Which sweater is the better buy? Explain.

#20 a.)  $\$11 \cdot .1 = \$1.1$   
meth 1  $\rightarrow \$11 - \$1.1 = \$9.9$   
or  
meth 2  $\rightarrow \$11 \cdot .9 = \$9.9$

#22 Store A is better buy  
\$17.5 S.P. is less than \$18 S.P.