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6.6 Exercises



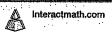
Addison-Wesley
Center Math Tutor Center







MyMathLab



Find the amount of sales tax or the tax rate and the total cost (amount of sale + amount of tax = total cost). Round money answers to the nearest cent if necessary. See Examples 1 and 2.

Amount of Sale 1. \$6	Tax Rate 4%	Amount of Tax	Total Cost
2. \$45	5%	<u> </u>	
3. \$425		\$12.75	
4. \$322		\$19.32	
5. \$284		\$14.20	****
6. \$84		\$5.88	
7. \$12,229	$5\frac{1}{2}\%$		
8. \$11,789	$7\frac{1}{2}\%$		

Find the commission earned or the rate of commission. Round money answers to the nearest cent if necessary. See Examples 3 and 4.

9.	Sales \$280	Rate of Commission 8%	Commission
10.	\$660	10%	***************************************
11.	\$3000		\$600
12.	\$7800		\$1170
13.	\$6183.50	3%	
14.	\$4416.70	7%	
15.	\$73,500	9%	
16.	\$55,800	6%	

Find the amount or rate of discount and the sale price after the discount. Round money answers to the nearest cent if necessary. See Example 5.

Original Price 17. \$199.99	Rate of Discount	Amount of Discount	Sale Price
18. \$29.95	15%		
19. \$180		. \$54	
20. \$38		_ \$9.50	
21. \$17.50	25%		
22. \$76	60%		
23. \$58.40	15%		
24. \$99.80	30%		

- 25. You are trying to decide between Company A paying a 10% commission and Company B paying an 8% commission. For which company would you prefer to work? What considerations other than commission rate would be important to you?
- 26. Give four examples of where you might use the percent of increase or the percent of decrease in your own personal activities. Think in terms of work, school, home, hobbies, and sports.

Solve each application problem. Round money answers to the nearest cent and rates to the nearest tenth of a percent if necessary. See Examples 1–7.

Country Store has a unique selection of merchandise that it sells by mail and over the Internet. Use the shipping and insurance delivery chart at the right and a sales tax rate of 5% to solve Exercises 27–30. There is no sales tax on shipping and insurance. (Source: Country Store Catalog.)

SHIPPING AND INSURANCE DELIVERY CHART				
Up to \$15.00	add \$3.95			
\$15.01 to \$25.00	add \$5,95			
\$25.01 to \$35.00	add \$6.95			
\$35.01 to \$50.00	add \$7.95			
\$50.01 to \$70.00	add \$8.95			
\$70.01 to \$99.99	add \$9.95			
\$100.00 or more	add \$10,95			

- 27. Find the total cost of six Small Fry Handi-Pan electric skillets priced at \$29.99 each.
- 28. A customer ordered five sets of flour-sack towels priced at \$12.99 per set. What is the total cost?
- 29. Find the total cost of three pop-up hampers at \$9.99 each and four nonstick mini doughnut pans at \$10.99 each.
- 30. What is the total cost of five coach lamp bird feeders at \$19.99 each and six garden weather centers at \$14.99 each?
- 31. An Anderson wood-frame French door is priced at \$1980 with a sales tax of \$99. Find the rate of sales tax.
- **32.** Textbooks for three classes cost \$245 plus tax of \$17.15. Find the sales tax rate.