

Practice 5-4

Applications of Percent

Find the total cost.

1. \$17.50 with a 7% sales tax

2. \$21.95 with a 4.25% sales tax

3. The price of a pair of shoes is \$85.99 before sales tax.
The sales tax is 7.5%. Find the total cost of the shoes. _____

Estimate a 15% tip for each amount.

4. \$12.68

5. \$18.25

6. \$15.00

Find each commission.

7. 2% on \$1,500 in sales

8. 8% on \$80,000 in sales

9. 5% on \$600 in sales

Find the percent error.

A student in a science lab is measuring the density of various materials. Compare the student's finding to the actual density.

Substance	Density g/cm ³	Measured Density g/cm ³	Percent Error
concrete	2.4	2.46	10.
corn kernel	0.4	0.38	11.
copper	8.9	9.1	12.

Find the registration fee.

10. To cover office expenses, a gymnastics camp charges a registration fee that is 3.4% of the tuition. If tuition is \$485, what is the fee?
Round to the nearest cent. _____
11. During peak summer season, a whitewater rafting company charges a 15% registration fee to reserve a 6-person raft that rents for \$90. How much is the fee? _____

Solve.

12. To recover a large chair in your home, you purchase $9\frac{1}{2}$ yards of upholstery fabric at \$11.00 per yard. If there is a 7% sales tax, what is the total cost of the fabric?
