Example 8

- a. How much money is 80% of \$40?
- b. How much money is 75% of \$40?
- c. Estimate 8.25% sales tax on a \$19.95 purchase.

Solution

To find a percent of a number we change the percent to a decimal or fraction and then multiply. Usually one form or the other is easier to multiply.

a. We choose to change 80% to a decimal.

$$0.8 \times $40 = $32$$

b. We choose to change 75% to a fraction.

c. We round 8.25% to 8% and 19.95 to \$20.

Step:	Justification:
8% of \$20	Rounded
$0.08 \times 20	8% - 0.08
\$1.60	Multiplied

Practice Set

Use words to write the decimal numbers in problems a and b.

a. 11.12

b. 0.375

Write each fraction in problems c-e as a decimal number.

c. 3

d. 2

0. 200

Write each decimal in problems f-i as a fraction.

f. 0.05

- g. 0.025
- h. 1.2

i. 0.001

Write each decimal in problems j-m as a percent.

J. O.B

k. 1.3

- L 0.875
- m. 0.002

Write each percent in problems n-q as a decimal.

n. 296

o. 20%

- p. 2496
- q. 0.3%
- r. Order from least to greatest: 0.4, 2.3, 0.6, 1/2.
- s. What length is 75% of 12 inches?
- t. If the sales-tax rate is 7.5%, what is the sales tax on a \$48.00 purchase?
- u. Estimate 8.25% sales tax on a \$39.79 purchase.

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