

Example 8

- How much money is 80% of \$40?
- How much money is 75% of \$40?
- 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.

- We choose to change 80% to a decimal.

80% of \$40

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

- We choose to change 75% to a fraction.

75% of \$40

$$\frac{3}{4} \times \$40 = \$30$$

- 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. $\frac{3}{5}$

d. $2\frac{1}{4}$

e. $\frac{1}{200}$

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. 0.8

k. 1.3

l. 0.875

m. 0.002

Write each percent in problems **n–q** as a decimal.

n. 2%

o. 20%

p. 24%

q. 0.3%

r. Order from least to greatest: 0.4, 2.3, 0.6, $\frac{1}{2}$.

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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Albert A Gayle



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