

Questions

1. Change 2.39 to a percent.
2. Change 7.4% to a decimal.
3. What is 8% of 65?
4. 36 is what percent of 24?
5. 49 is what percent of 28?
6. What percent of 340 is 17?
7. In 2002 it was found that the average consumer 65 years or older had an annual income of \$26,533.67. It was found that the average consumer spent \$3,247.54 per year for health care. Find exactly the percentage of income spent for health care, then redo the calculation using estimates to speed calculation.

Solutions

1.

$$2.39 = \frac{239}{100} = 239\%$$

2.

$$7.4\% = \frac{7.4}{100} = 0.074$$

3.

$$8\% \times 65 = 0.08 \times 65 = 5.2$$

4.

$$\frac{36}{24} = 1.5 = \frac{150}{100} = 150\%$$

5.

$$\frac{49}{28} = 1.75 = \frac{175}{100} = 175\%$$

6.

$$\frac{17}{340} = 0.05 = \frac{5}{100} = 5\%$$

7.

$$\text{Exact: } \frac{3,247.54}{26,533.67} = 0.122393 = \frac{12.2393}{100} = 12.2393\%$$

$$\text{Estimate: } \frac{3,247.54}{26,533.67} \sim \frac{3,000}{30,000} = \frac{10}{100} = 10\%$$