# Review for Chapter Seven Exam

**Solve**.

**1**. In a survey of 100 people, 4 preferred relish on their hot dogs. What percent preferred relish?

**2**. A dart player made 89 bull's eyes out of 100 attempted throws. What percent of the throws was NOT bull's eyes?

**3**. A basketball player made 30 out of 100 attempted free throws. What percent of free throws was made?

**Write each percent as a decimal**.

**4**. 0.1%                                          **5**. 0.39%

**6**. 170%

**Write each decimal as a percent.**

**7**. 0.00554                                       **8**. 0.119

**9**. The Sayed family saves 0.1217 of their income. Write this decimal as a percent.

**Write each percent as a fraction or mixed number in simplest form.**

**10**. 276%                                         **11**. $185\dfrac{5}{7}\%$

**12**. $66\dfrac{2}{3}\%$

**Write each fraction or mixed number as a percent.**

**13**. $\dfrac{29}{50}$                               **14**. $\dfrac{5}{12}$

**15**. $\dfrac{7}{15}$     Round to the nearest hundredth percent.

**Solve.  Round decimals to the nearest thousandth and percents to the nearest tenth of a percent.**

**16**.  Write the equivalent decimal and percent for  $\dfrac{4}{75}$ .

**17**.  Write the equivalent fraction and percent for  0.12.

**18**.  Write the equivalent fraction and decimal for  50%.

**Translate each question into an equation.  Do not solve.**

**19**.  What percent of  1  is  97?

**20**.  What number is  53%  of  37?

**21**.  13.6 is what percent of 36?

**22**.  52%  of  92.2  is what number?

**Solve.**

**23**.  10%  of  300  is what number?

**24**.  2  is what percent of  16?

**25**.  15  is  6%  of what number?

**26**.  8.0%  of  2300  is what number?

**27**.  71  is  0.71%  of what number?

**28**.  132  is what percent of  66?

**Solve.  If necessary, round percents to the nearest tenth and all other answers to the nearest whole.**

**29**.  The Tragord family paid  17%  of the purchase price of a  $294,000  home as a down payment.  Determine the amount of the down payment.

**30**.  In a recent survey of  24  people,  6  said that their favorite color of car was blue.  What percent of the people surveyed liked blue cars?

**31**.  An inspector found  12  defective cameras during an inspection.  If this is  0.012% of the total number of cameras inspected, how many cameras were inspected?

**ANSWERS**

**1.** 4%   **2.** 11%   **3.** 30%   **4.** 0.001   **5.** 0.0039   **6.** 1.7   **7.** 0.554%   **8.** 11.9%   **9.** 12.17%
**10.** $2\dfrac{19}{25}$   **11.** $1\dfrac{6}{7}$   **12.** $\dfrac{2}{3}$   **13.** 58%   **14.** $41\dfrac{2}{3}\%$   **15.** 46.67%   **16.** 0.053; 5.3%   **17.** $\dfrac{3}{25}$; 12%
**18.** $\dfrac{1}{2}$; 0.5   **19.** $x \cdot 1 = 97$   **20.** $x = 53\% \cdot 37$   **21.** $13.6 = x \cdot 36$   **22.** $52\% \cdot 92.2 = x$   **23.** 30   **24.**
12.5%   **25.** 250   **26.** 184   **27.** 10,000   **28.** 200%   **29.** $49,980   **30.** 25%   **31.** 100,000 cameras