

Percent Equations and Applications

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Solve.

- 1) What is 10% of 300? 1) _____
- 2) What is 5% of 300? 2) _____
- 3) What is 34% of 1027? 3) _____
- 4) What is 83% of 107? 4) _____
- 5) What number is 8.6% of 50? 5) _____
- 6) What number is 7000% of 472? 6) _____
- 7) 85 is 70% of what number? 7) _____
- 8) 22 is 9% of what number? 8) _____
- 9) 36% of what number is 64? 9) _____
- 10) 70% of what number is 89? 10) _____
- 11) 107 is 32% of what number? 11) _____
- 12) 67 is .68% of what number? 12) _____
- 13) 576 is 12.4% of what number? 13) _____
- 14) 58 is 122% of what number? 14) _____
- 15) 977 is what percent of 1942? 15) _____
- 16) 955 is what percent of 746? 16) _____
- 17) 3.0 is what percent of 16.2? 17) _____
- 18) What percent of 3111 is 17? 18) _____
- 19) What percent of 9 is 0.03? 19) _____
- 20) What percent of 174 is 10.6? 20) _____
- 21) What percent of 62 is 360? 21) _____

- 22) 78.2 is what percent of 5? 22) _____
- 23) What percent of 34 is 34? 23) _____
- 24) What percent of 86 is 43? 24) _____
- 25) The parking lot at a grocery store has 72 cars in it. 50% of the cars are blue. How many cars are blue? 25) _____
- 26) During one year, the Larson's real estate bill included \$411 for local schools. Of this amount, \$95 went to the high school district. What percent did the Larsons pay to the high school district? (Round answer to two decimal places.) 26) _____
- 27) During one year, the Green's real estate bill included \$357 for city services. The fire department received 24% of that amount. How much money went to the fire department? 27) _____
- 28) During one year, the Cheung's real estate bill included \$240 for county services. Of this amount, \$112 went to the highway department. What percent did the county highway department receive? (Round answer to two decimal places.) 28) _____
- 29) During one year, the Schmidt's real estate bill included \$280 for miscellaneous services. Of this amount, 63% went to the library fund. How much money did the library receive? 29) _____
- 30) To finance her community college education, Marguerite takes out a Stafford loan for \$2100. After a year, Marguerite decides to pay off the interest, which is 9% of \$2100. How much will she pay? 30) _____
- 31) A tax-exempt school group received a bill of \$253.59 for educational software. The bill incorrectly included sales tax of 7%. How much should the school group pay? 31) _____

Solve the problem.

- 32) If Gloria received a 4 percent raise and is now making \$24,960 a year, what was her salary before the raise? Round to the nearest dollar if necessary. 32) _____
- 33) Stevie bought a stereo for \$230 and put it on sale at his store at a 65% markup rate. What was the retail price of the stereo? Round to the nearest cent if necessary. 33) _____
- 34) On Monday, an investor bought 100 shares of stock. On Tuesday, the value of the shares went up 8%. How much did the investor pay for the 100 shares if he sold them Wednesday morning for \$1620? Round to the nearest dollar if necessary. 34) _____
- 35) At the end of the day, a storekeeper had \$1060 in the cash register, counting both the sale of goods and the sales tax of 6%. Find the amount that is the tax. Round to the nearest dollar if necessary. 35) _____

- 36) Brand X copier advertises that its copiers run 25% longer between service calls than its competitor. If Brand X copiers run 56,100 copies between service calls, how many copies would the competitor run (to the nearest copy)? 36) _____
- 37) After receiving a discount of 9.5% on its bulk order of typewriter ribbons, John's Office Supply pays \$5249. What was the price of the order before the discount? Round to the nearest dollar if necessary." 37) _____
- 38) After spending \$2750 for tables and \$2450 for chairs, a convention center manager finds that 20% of his original budget remains. Find the amount that remains. Round to the nearest dollar if necessary. 38) _____
- 39) Midtown Antiques collects 2% sales tax on all sales. If total sales including tax are \$1781.86, find the portion that is the tax. Round to the nearest cent if necessary. 39) _____
- 40) In a local election, 38,700 people voted. This was an increase of 13% over the last election. How many people voted in the last election? Round to the nearest whole person if necessary. 40) _____
- 41) In a local election, 27,600 people voted. This was a decrease of 13% over the last election. How many people voted in the last election? Round to the nearest whole person if necessary. 41) _____

Answer Key

Testname: PERCENTS AND APPLICATIONS OF PERCENTS

- 1) 30
- 2) 15
- 3) 349.18
- 4) 88.81
- 5) 4.3
- 6) 33,040
- 7) 121.43
- 8) 244.44
- 9) 177.78
- 10) 127.14
- 11) 334.38
- 12) 9852.94
- 13) 4645.16
- 14) 47.54
- 15) 50.3 %
- 16) 128.0 %
- 17) 18.5 %
- 18) 0.5 %
- 19) 0.3 %
- 20) 6.1 %
- 21) 580.6 %
- 22) 1564.0 %
- 23) 100%
- 24) 50%
- 25) 36 cars
- 26) 23.11%
- 27) \$85.68
- 28) 46.67%
- 29) \$176.40
- 30) \$189
- 31) \$237.00
- 32) \$24,000
- 33) \$379.50
- 34) \$1500
- 35) \$60
- 36) 44,880 copies
- 37) \$5800
- 38) \$1300
- 39) \$34.94
- 40) 34,248 people
- 41) 31,724 people