

RP.3 Test – Percent and Ratio Problems

- Carly went to Target and bought a magazine for \$4.99, a book for \$12.99, and a DVD for \$17.99. What was her total bill including 6% sales tax?
A. \$35.97 B. \$38.13 C. \$2.16 D. \$42.37
- Brooke bought a pair of shoes for \$54.99 and a bracelet for \$21.99. He used a 15% off coupon and then paid 7.5 % sales tax. What was the total amount spent?
A. \$76.98 B. \$65.43 C. \$70.34 D. \$70.01
- Graham makes 4% commission on his sales as a real estate agent. If Graham sells a house for \$249,000, how much money does he earn?
A. \$99,600 B. \$258,960 C. \$9,960 D. \$239,040
- Jax purchased an iPad mini on sale 20% off for \$263.20. What was the original price of the iPad mini?
A. \$315.84 B. \$329 C. \$210.56 D. \$400
- Which is the better deal and by how much: a camera priced \$79 at Target marked 20% off, or the same camera priced \$85 at Walmart marked 25% off?
A. Target camera by \$0.55 B. Walmart camera by \$0.55 C. They are the same price
- Jamar inherited \$2,000 and deposited it in the bank for 9 months earning 4%. What is the interest?
A. \$6,000 B. \$720 C. \$72,000 D. \$60
- A notebook costs \$4.50 plus sales tax. After sales tax, the notebook is \$4.86. What is the percent of tax?
A. 6% B. 7% C. 8% D. 9%
- Mojo Cycles pays \$120 for a bicycle and marks it up 65% for a profit. When they sell the bike, how much money will the store have made in profit?
A. \$72.73 B. \$198 C. \$78 D. \$184.61
- 74 people took part in a survey and 15 of them reported swimming as their favorite activity. What percent of the people surveyed enjoyed swimming? (Round to the ones place)
A. 80% B. 20% C. 20.2% D. 63%

10. Tommy, the car salesman, earns \$450 in commission on the sale of a car. If his rate of commission is 3%, how much is the cost of the car?
- A. \$15,000 B. \$436.89 C. \$13.50 D. \$463.50
11. The Farr family had a meal catered for a wedding rehearsal dinner for their son's wedding. The cost of the dinner was \$476. There was a 5% sales tax and they left a 15% tip. What was the total cost including the sales tax and the tip?
- A. \$499.80 B. \$574.77 C. \$547.40 D. \$520.03
12. Patrick borrowed \$3,500 from his cousin at 2.5% interest rate for four years to buy a used car. What is the total amount Patrick has to pay back his cousin at the end of the four years?
- A. \$35,000 B. \$38,500 C. \$350 D. \$3,850
13. Khristien just received a 6% raise in salary. Before the raise, she was making \$52,000 per year. How much will she earn next year?
- A. \$55,120 B. \$56,000 C. \$83,200 D. \$52,600
14. Robinson bought a book for \$13.73, which includes 6% tax. What was the original price of the book?
- A. \$14.61 B. \$13.50 C. \$8.55 D. \$12.95
15. After babysitting all summer, Evie earned \$1,000. She decided to deposit it all into a savings account that earns simple interest. After 4 years, her savings account balance is \$1,200. Determine the annual interest rate.
- A. 30% B. 0.3% C. 0.05% D. 5%
16. Mrs. Thompson bought a water tube to pull behind her boat. The tube cost \$87.00 and 9% sales tax was added at the register. Mrs. Thompson gave the cashier five \$20 bills. How much change should she have received?
- A. \$4.83 B. \$94.83 C. \$5.17 D. \$117.00
17. Hannah paid \$15.79 for a dress that was originally marked \$24.99. What is the percent of discount?
- A. 63% B. 58% C. 37% D. 158%

18. Mr. Clark wants to buy a suit marked \$60. The suit was on sale for 25% off and then, when he goes to buy the suit, he receives a 10% teacher discount. How much does Mr. Clark actually spend on the suit (pre-tax)?
- A. \$40.50 B. \$82.50 C. \$49.50 D. \$67.50
19. Mrs. Paytes recently started wearing a FitBit to allow her to track her steps. She estimated that she would take 7500 steps in a day. She actually took 12,500 steps. Calculate her percent of error.
- A. 7500% B. 75% C. 67% D. 40%
20. Mrs. Syfert purchased 20 Valentine cupcakes for her son's party, but only fifteen kids attended the party. Calculate her percent of error.
- A. 25% B. 33% C. 75% D. 133%
21. CJ deposited \$10,000 into a savings account at 6% interest rate to save for college. After a certain amount of time, he earned \$4,800. How long did he have his money in the savings account?
- A. 6 years B. 8 years C. 0.08 years D. 25 years
22. Alex took 15 shots on goal during the Veteran's Day tournament, and she made 20% of them. How many goals did Alex score?
- A. 6 goals B. 2 goals C. 3 goals D. 12 goals
23. Melody deposited money in the bank for 8 years and did not make any withdrawals. She earned \$1,600 in interest. The interest rate was 8%. Calculate the initial amount deposited.
- A. \$2,500 B. \$250 C. \$1,024 D. \$160,000
24. According to a survey, 60 out of 100 gym members preferred listening to music while exercising. If there are 425 gym members, how many are expected to listen to music while exercising?
- A. 170 B. 255 C. 325 D. 365