

Key

All Percents review

1) Mrs. Paytes bought 48 pencils for her class, but only needed 40. What was the percent of error?

- a) Percent of error is 8 / 40
- b) In this problem the actual is 40
- c) The answer is... 20%

2) Leah went to Target and bought 2 pairs of leggings for \$8.99 each, a pack of pens for \$0.99, and a journal for \$4.99. There was 7.25% tax. What was the total bill?

- a) Is this a working forward or backward problem? Forward
- b) How do you know? The total bill - multiplication not division
- c) Show your work- what is your answer

$14.97 \times 1.0725 = \$16.06$

3) Max makes 11% commission on car sales. If he sold a car for \$22,000 and another for \$14,500. What did he earn in commission on his sales? \$4015

- a) Is commission a mark up? Mark down? Or just a percent? Just a percent
- b) show your work - circle your answer

$.11 \times 36,500 = \$4015$

4) Mrs. Paytes bought a monogrammer for \$110.79. 7.5% tax was added at the register. If she gave the clerk 6-\$20 bills, how much change did she receive? $110.79 \times 1.075 = \$119.10$

$6 \times 20 = \$120$

$120 - 119.10 = \$0.90$

5) Laksha paid \$10.50 for a meal at Wendy's. The meal was originally marked 12.00. What was the percent of discount?

a) percent of change is 1.50 / 12.00

b) in this problem the original is 12.00

c) show your work - circle your answer $1.50/12 = 0.125 \rightarrow 12.5%$

6) Abby wants to buy a jacket this is for sale for \$85. She has a coupon for 20% off. Then at the register she gets an additional 10% discount for being the 1000th customer. She has to pay 7.25% tax. How much was the jacket?

$85 \times .80 = \$68 \times .90 = \$61.20 \times 1.0725 = \$65.64$

7) A sporting goods store paid \$101 for a soccer goal, they then mark it up 60%. At the end of the season, they mark it down 20%, how much profit did they earn on the goal?

$101 \times 1.6 = \$161.60 \times .80 = \129.28 $161.60 - 129.28$

8) 107 people took a survey and 45 of them reported that dark chocolate was their favorite candy

What percent of the respondents chose dark chocolate? $45/107 \rightarrow 42%$

$45/107 = 42.32$

9) 60% of the gym members report using the basketball court. If the gym has 300 members, how many used the basketball court? $100 - 60 = 40%$ $300 \times .40 = 120$

10) Tom, the car salesman earns \$820 in commission, his rate was 5% per car. How much was the car?

Backwards

$820 \div .05 = \$16,400$

11) Nivedah spent a total of \$45.01 at Walmart. The tax rate was 7.25%. If she bought 3 identical items, how much was each of the items before tax? $45.01 \div 1.0725 = \$41.97 \div 3$

$\$13.99$

12) Jack mowed lawns all summer. He earned \$950. He deposited all of it in a savings account and after 5 years the balance was \$1300. Determine the annual interest rate (assume this is simple interest). $I = Prt$

$1300 - 950$

$350 = 950 \times 5r$ $350 = \frac{4750r}{4750}$

$r = 7%$

13) 12 is what percent of 20?

$12/20 \rightarrow 60%$

14) What number is 32% of 75?

$75 \times .32 = 24$