

Name: _____

Class: _____

Quarterly 2 Review Sheet 2

Question 1

The bill for your restaurant meal is \$22. You leave a 15% tip. The sales tax is 6%. What is the total cost of your meal?

\$26.82

Question 2

A furniture store marks up the original price of a desk lamp by 80%. The retail price is \$35. What is the original price?

\$19.44

Question 3

The pizzas you order for home delivery cost \$19. The sales tax is 4.9%, and you plan to give a 15% tip. Find the total cost of the order.

\$22.92

Question 4

A store marks up the original price of an item by 60%. A month later, the store puts the item on sale. If the store doesn't want to lose money on the item, what is the maximum discount percent the store can use?

37.5%

Question 5

Find the simple interest (I) if $P = \$495$, $r = 5\%$, $t = 3.5$ years

\$86.63

Question 6

Find the time (in years) if $P = \$100$, $r = 8\%$, and $I = \$4$

$\frac{1}{2}$ year

Question 7

You loan your brother \$300 and charge him 2% simple annual interest. He promises to repay you three years later. How much will your brother have to pay you?

\$318

Question 8

In 1992, one gigabyte of information stored in computers cost \$3,000. In 2002, one gigabyte of stored information cost 99.9% less. How much did one gigabyte of stored information cost in 2002?

\$3

Question 9

Consider four states listed below and the area of wetlands (in millions of acres) in those states in the given year:

State	1780s	1980s
State A	170.2	170
State B	20.3	11
State C	16.2	8.8
State D	15.1	8.7

In which state was the percent of change in the area of wetlands from the 1780s to the 1980s the *least*?

State A

In which state was the percent of change in the area of wetlands from the 1780s to the 1980s the *greatest*?

State B

Question 10

The number of people between the ages of 2 and 18 who accessed streaming media on the Internet in November 1999 increased by 65% to about 7 million in November 2000. About how many people in this age group accessed streaming media in November 1999?

4,242,424 people

Question 11

There were about 23,000 movie screens in the U.S. in 1990. The number of screens increased to about 34,500 by 2001. By what percent did the number of screens change from 1990 to 2001?

50%

Question 12

number of steps	distance in kilometers
950	1
2,852	3
4,845	5.1

A phone keeps track of the number of steps taken and the distance traveled. Based on the information in the table, is there a proportional relationship between the two quantities?

No, because there is no constant of proportionality (1 divided by 950 is different from 3 divided by 2,852)

Question 13

A car dealership pays an original price of \$12,000 to purchase a vehicle. If the car dealership wants to make a 32% profit, by how much will they mark up the price of the vehicle?

\$3,840

Question 14

A car dealership had a car selling for \$15,840. During a special sales event, the dealership offered a 10% discount off the price.

This car dealership pays a salesperson a bonus for selling the car equal to 6.5% of the sale price. How much potential bonus did the salesperson lose when the dealership decided to offer the 10% discount on the car?

\$102.96

Question 15

For each gym membership sold, a gym keeps \$42 of the membership and the employee who sold it keeps \$8 of the membership. What is the commission the employee earned as a percentage of the total cost of the gym membership?

16%

Question 16

A bike store marks up the original cost of all of the bikes they sell by 30%. If Andre wants to buy a bike that has a price tag of \$125, what was the original cost of the bike?

\$96.15

Question 17

At a club bake sale, cookies cost \$0.40 each and cupcakes cost \$0.65 each. The club sells 65 cookies and 60 cupcakes.

What percent of the money made came from sales of cookies?

40%

Question 18

An art director has 75 photos to display in an art exhibit. Of these, 9 are color photos and 66 are black-and-white photos. The director wants to add more color photos so that they represent 25% of the photos at the exhibit. Find the number of color photos to be added.

13

Question 19

The area of Square A is 400 square centimeters. The side length of Square B is 65% of the side length of Square A. What percent of the area of Square A is the area of Square B?

42.25%