

## Percents Review

1. Three stores sell the same Panthers t-shirt.

- At Store A, the shirt is 65% off the regular price of \$62.79.
- At Store B, the shirt is 60% off the regular price of \$55.65.
- At Store C, the shirt is 45% off the regular price of \$42.29.

What is the difference in price between the highest and lowest sale prices?

- A. \$0.28
- B. \$1.00
- C. \$1.28
- D. \$1.56

2. Al earns \$500 a week selling shoes. He also earns 8% commission on all of his shoe sales. Last week, he sold \$1,540 worth of shoes. How much money did Al earn last week?

- A. \$123.20
- B. \$623.20
- C. \$663.20
- D. \$703.20

3. Jarrod earns \$1,000 a week selling insurance. He also earns 6% commission on all of his insurance policies sold. Last week, he sold \$4,200 worth of insurance policies. How much money did Jarrod earn last week?

- A. \$252
- B. \$748
- C. \$1,252
- D. \$1,748

4. The Chatlak family went out to dinner.

- The price of their meal was \$58.60.
- The sales tax was 8% of the price of the meal.
- The tip was 20% of the price of the meal and the sales tax.

How much money did the Chatlaks pay for the price of the meal, sales tax, and tip?

- A. \$61.40
- B. \$64.69
- C. \$75.01
- D. \$75.95

5. Carla bought a dress at a sale for 20% off the original price. The sale price of the dress was \$28.80. Find the original price of the dress, in dollars.
- A. \$23.04
  - B. \$5.76
  - C. \$34.65
  - D. \$36

6. Luisa bought a dozen donuts for a class party. The donuts cost \$7.98 plus she was charged an additional 6% tax. How much did Luisa pay for the donuts including tax?

Luisa's total for the donuts was \$ .

7. A video game originally costs \$49.99. It was discounted 15%. What is the sale price of the game?
- A. \$7.50
  - B. \$34.99
  - C. \$42.49
  - D. \$57.49

8. Yesterday, the temperature was 80°F. Today, the high temperature was 75°F. What was the percent of change in the temperature?
- A. 5%
  - B. 6.25%
  - C. 37.5%
  - D. 93.75%

9. The bill at a restaurant was \$133. You wanted to leave a 20% tip. How much money should you leave for the tip?

**Answer:** You should leave \$  as a tip.

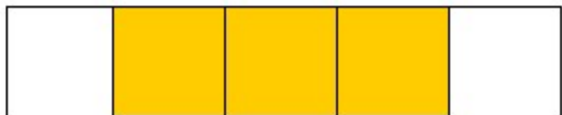
10. A shirt that originally cost \$38.00 is on sale for 30% off. What is the sale price of the shirt?
- A. \$11.40
  - B. \$26.60
  - C. \$29.23
  - D. \$49.40

11. The employees at the zoo gift shop earn commission for every stuffed animal they sell. An employee sold \$880 worth of merchandise and earned \$264 in commission. What percent commission did the employee earn?
- A. 20%
  - B. 25%
  - C. 30%
  - D. 40%

12. Elizabeth is baking chocolate chip cookies. A single batch uses  $\frac{3}{4}$  teaspoon of vanilla. If Elizabeth is mixing the ingredients for five batches at the same time, how many tablespoons of vanilla will she use?

3 teaspoons = 1 tablespoon

- A.  $1\frac{1}{4}$   
B.  $1\frac{3}{4}$   
C.  $3\frac{3}{4}$   
D.  $5\frac{3}{4}$
13. Johnson has 3 quarters, 2 dimes and 1 penny in his pocket. What percentage of one dollar does he have in his pocket?  
A. 60%  
B. 78%  
C. 96%  
D. 85%
14. Write a percent to represent the shaded portion of the model.



- A. 30%  
B. 35%  
C. 33%  
D. 60%
15. If a bank offers a savings account that pays a simple interest rate of 3% and you deposit \$550.00 into the account, how much interest will you have earned after 2 years?  
A. \$3,300.00  
B. \$3.00  
C. \$33.00  
D. \$1,100.00
16. When  $x = 6$ ,  $y = 14$ . What is the value of  $y$  when  $x = 9$ ? Solve the following proportion using the product of the means = the product of the extremes.

$$6 : 14 = 9 : y$$

Product of the means =

$y =$

17. Every year, Mr. Gates gives his son \$1,000 for Christmas. If Mr. Gates makes \$190,467.19 per year, what percent of his salary does his son get at Christmas, to the *nearest hundredth of a percent*?

Answer: %

18. The price to play a round of golf at Black Rock Country Club was \$102 last year. This year it costs \$117.30. What percent is the new price of last year's price?

Answer: %

19. As a shareholder, Mrs. Fyfe owns 0.15% of all the shares in a very large company. If there are a total of 3,525,120 shares of stock, how many does Mrs. Fyfe own, to the *nearest tenth* of a share?

Answer:  shares

20. 150% of 350 is

- A. 0.525
- B. 5.25
- C. 52.5
- D. 525

21. 0.02% of 92 is

- A. 0.184
- B. 0.0184
- C. 1.84
- D. 0.00184

22. Mary and Janet were at a restaurant where they thought the service was excellent. They wanted to leave a 20% tip for the server. If the check was \$46.60, about how much should they have to leave to cover both the check and the tip? Round your answer to the nearest dollar.

- A. \$53.00
- B. \$55.00
- C. \$56.00
- D. not enough information given

23. The Valley Central School District ordered 300 bagels for their spring faculty breakfast. They want 65% of the bagels to be plain. How many plain bagels should they order?

- A. 183
- B. 156
- C. 200
- D. 195

24. The cost of lunch was \$29.40 and Maya paid \$33.81 in all. What percent was the tip that Maya left?

Answer:  %

25. A local farm sells produce to a large grocery chain. The grocery store uses a 28% markup on the farm's produce. If the farm sells the store watermelons for \$3.00 each, how much does the grocery store charge?

Answer: \$  each

26. If a clothing purchase costs \$110.75 and the tax is \$8.86, how much will the final cost be?

Answer: \$

27. A guitar costs \$26.75 after tax. If the selling price of the guitar is \$25.00, what was the percent of sales tax charged?

Answer:  %

28. Barbara is going to buy a shirt for \$15.00 and a pair of pants for \$25.00. She has to also pay 7% sales tax. If Barbara pays with a \$50 bill, how much change will she get back?

Answer: \$

29. Rosa wants to buy a computer desk that originally cost \$650.00. It has been marked down to a new price of \$520.00. What is the percent off?

Answer:  %

30. The table below shows the population of selected cities bordering the Erie Canal from 1820 to 1850.

### POPULATION OF CITIES BORDERING THE ERIE CANAL

Date	Albany	Troy	Utica	Syracuse	Rochester	Buffalo
1820	12,636	5,264	2,972	1,814	1,502	2,095
1825	15,971	7,859	5,040	3,833	5,273	5,141
1830	24,909	11,556	8,323	6,929	9,207	8,668
1840	33,721	19,334	12,782	11,013	20,191	18,213
1850	50,763	28,785	17,565	22,271	36,403	42,261

What is the percent increase of the population of Albany from 1820 to 1850? Round your answer to the nearest percent.

Answer:  %

Figure 1

The data table shows the total value of world exports over a 20-year period.

Total Value of World Exports (billions of dollars)				
Year	1965	1970	1980	1985
Exports	186	312	1,393	2,456

31. [Refer to figure 1]

The total value of exports rose significantly between 1970 and 1980. Which expression could be used to calculate the percent increase in exports during this time period?

A.  $\frac{1,393 - 312}{312} \times 100$

B.  $\frac{1,393 + 312}{312} \times 100$

C.  $\frac{2,456 - 312}{312} \times 100$

D.  $\frac{2,456 + 312}{312} \times 100$

32. A store advertised a 25% decrease in the price of televisions. If a television was discounted \$162.50, what was the original price?

Answer: \$

33. What is the percent decrease from 345 to 300? Round to the nearest percent.

Answer:  %

34. How many years would it take to earn \$225 on a \$750 investment at 5% simple interest?

Answer:  years

35. Rashawn bought a CD that cost \$18.99 and paid \$20.51, including sales tax. What was the rate of the sales tax?

- A. 5%
- B. 2%
- C. 3%
- D. 8%

36. In a town election, candidates  $A$  and  $B$  were running for mayor. There were 30,500 people eligible to vote, and  $\frac{3}{4}$  of them actually voted. Candidate  $B$  received  $\frac{1}{3}$  of the votes cast.

**a** How many people voted for candidate  $B$ ?

**b** What percent of the votes cast, to the *nearest tenth of a percent*, did candidate  $A$  receive?   
%

37. On a map, 1 centimeter represents 40 kilometers. How many kilometers are represented by 8 centimeters?

- A. 5
- B. 48
- C. 280
- D. 320

38. There are 357 seniors in Harris High School. The ratio of boys to girls is 7:10. How many boys are in the senior class?

- A. 210
- B. 147
- C. 117
- D. 107

39. Linda paid \$48 for a jacket that was on sale for 25% of the original price. What was the original price of the jacket?

- A. \$60
- B. \$72
- C. \$96
- D. \$192

40. A painting that regularly sells for a price of \$55 is on sale for 20% off. The sales tax on the painting is 7%. Will the final total cost of the painting differ depending on whether the salesperson deducts the discount before adding the sales tax or takes the discount after computing the sum of the original price and the sales tax on \$55?

- A. Yes, the final total cost is different depending upon which method is used.
- B. No, the final total cost is *not* different depending upon which method is used.