

TEST NAME: **Using Percents**
TEST ID: **394973**
GRADE: **07**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

Student: _____

Class: _____

Date: _____

1. Jamal surveyed students about their favorite lunch choice. He recorded the results in the table below.

Food	Responses
pizza	26
hamburger	18
chicken	13
nachos	7
spaghetti	6

If there are 350 students in Jamal's school, how many are expected to choose hamburgers?

- A. 180 students
 - B. 130 students
 - C. 90 students
 - D. 18 students
2. Robert took a math test and got 36 correct and 14 incorrect answers. What was the percentage of correct answers?
- A. 28%
 - B. 36%
 - C. 50%
 - D. 72%

3. The art supply store is having a sale.

- Paint sets are 20% off and everything else is 15% off.
- Before the discount, a paint set is priced at \$43.50, a canvas is \$12.75, and paint brushes are \$7.50.
- Mary purchases all three of these items.

About how much did Mary spend after the discount, before sales tax?

- A. \$29
- B. \$41
- C. \$43
- D. \$52

4. In art class, Kim is mixing paint. The paint mixture is 3 parts yellow and 5 parts blue. What percent of the paint is yellow?

- A. 30%
- B. 37.5%
- C. 60%

5. A sample of 50 different-colored golf balls was removed from the total number of golf balls made. The sample contained 8 pink golf balls. **About** how many total golf balls were made if 56 of the total golf balls were pink?

- A. 2,800
- B. 2,500
- C. 350
- D. 300

6. A company surveyed 300 people.
- 180 people preferred the taste of soft drink X.
 - 40 people preferred the taste of soft drink Y.
 - 80 people preferred the taste of soft drink Z.
 - The company plans to produce 1 million bottles of soft drink.

Based on the results of the survey, **about** how many bottles of soft drink Z should the company produce?

- A. 80,000
- B. 160,000
- C. 270,000
- D. 300,000
7. Rachel, Tammy, and Bryan all bought something at the mall. Rachel's necklace cost 20% more than Tammy's shoes. Bryan's video game cost 30% more than Rachel's necklace. If Tammy's shoes cost \$30.00, what did Bryan's video game cost?
- A. \$10.80
- B. \$36.00
- C. \$46.80
- D. \$80.00
8. Kendra is serving two tables at the diner where she works. At the first table, the bill was \$37.40, and she received 15% of the bill amount as a tip. At the second table, the bill was \$34.50, and the tip was 18% of the bill amount. At which table did Kendra receive the bigger tip, and how much more did she get?
- A. first table; \$1.56
- B. first table; \$2.90
- C. second table; \$0.60
- D. second table; \$6.21

9. The results of a survey of seventh-grade students and the type of music they prefer are in the table.

Type of Music	Number of Students
Rock	20
Pop	13
Country	15
Classical	2

If there are 500 seventh-grade students in one school, how many can be expected to prefer country music?

- A. 100
- B. 150
- C. 200
- D. 250
10. Mark works at a clothing store and earns a 20% commission on his total sales. Last month, Mark sold \$1,500 in clothing total sales. What was his commission last month?
- A. \$20
- B. \$30
- C. \$300
- D. \$600
11. John earns \$54 for every 2 cakes he sells. If he earned \$432 in 4 days and sold the same number of cakes per day, how many cakes did he sell per day?
- A. 2
- B. 4
- C. 8
- D. 16

12. The original price of a DVD was \$12. The price was reduced by 18%. What is the new price of the DVD?
- A. \$2.16
 - B. \$6.00
 - C. \$9.84
 - D. \$10.20
13. A company receives 1.5% commission on the sale price of each house sold. For each house he sells, James earns $\frac{1}{3}$ of the company's commission. James sells a house for \$205,000. How much money will James earn?
- A. \$1,025
 - B. \$3,075
 - C. \$9,225
 - D. \$10,250
14. Ryan worked for 7 hours and earned \$52.50. If this rate increases by 4%, what will he earn if he works for 8 hours?
- A. \$54.60
 - B. \$60.00
 - C. \$60.30
 - D. \$62.40
15. The cost of a television was \$500. The cost was increased by 10% and then decreased by 10%. What was the final price of the television?
- A. \$450
 - B. \$495
 - C. \$500

16. During the fall semester, each girl must play volleyball, soccer, or both.

	Number of Girls
Volleyball Only	63
Soccer Only	52
Both	59

What is the percentage of girls who play volleyball only, to the nearest whole percent?

- A. 36%
- B. 52%
- C. 63%
- D. 70%