TEST NAME: **williams 7th unit 4 percents (COPY)**
TEST ID: **2985681**
GRADE: **07 - Seventh Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**

Student: _____

Class: _____

Date: _____

1. **Michelle walks at a speed of 320 feet per minute. Her friend Diane lives 400 yards from Michelle's house. Approximately how many minutes would Michelle need to walk from her house to Diane's house and back?**

   A. 1.25

   B. 2.5

   C. 3.75

   D. 7.5

2. 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

3. Darlene wants to buy a sweater that originally cost $32. It is on sale for 20% off. Sales tax is 6.75%. What is the final price of the sweater with tax?

   A. $23.44

   B. $23.87

   C. $25.60

   D. $27.33

4. In 1992, the population in a town was 8,000 people. In 1997, the population was 14,000. What was the percent increase in the population?

   A 43%

   B. 57%

   C. 75%

   D. 133%

5. 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. $52

   D. $57

6. Two computer salesmen are comparing their earnings. John earns $12 an hour, plus a 15% commission on his sales. Dave earns $9 an hour, plus a 17% commission on his sales. If they each sell $6,500 worth of computers in a 40-hour work week, who earns more money and how much more?

   A Dave earns $10 more than John.

   B. John earns $10 more than Dave.

   C. Dave earns $100 more than John.

   D. John earns $100 more than Dave.

7. Gene measured the length of his bedroom at 14 feet. The actual length is 14.5 feet. What is the **approximate** percent error?

   A. 0.5%

   B. 2.0%

   C. 3.4%

   D. 3.6%

8. 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%

9. **Julia is taking a 200-mile trip by car. If she drives for two hours with an average speed of 60 miles per hour, how many miles will she still need to drive to complete her trip?**

   A. 80

   B. 120

   C. 140

   D. 400

10. **Ashley needs to rent tables and chairs for a fashion show that she is coordinating. The round tables rent for $8 each and white wooden chairs rent for $2.25 each. She needs to rent the tables and chairs in a 1-to-6 ratio. If she has a $525 budget, which of the following combinations should she choose?**

   A. 22 tables and 132 chairs

   B. 23 tables and 136 chairs

   C. 24 tables and 142 chairs

   D. 25 tables and 150 chairs

11. The amount of moisture in a soil sample is calculated by comparing its wet weight to its dry weight. The sample weighs 15 grams before drying and 12 grams after the soil is dry. What is the percent of moisture loss?

   A. 3%

   B. 20%

   C. 25%

   D. 80%

12. The value of an investment increased from $750 to $795. By which percentage did the value of the investment increase?

   A. 94.3%

   B. 45%

   C. 6%

   D. 5.7%

13. **Karl needs $3\frac{1}{2}$ square yards of fabric to make 1 patio chair cover. What is the total amount of fabric needed to cover 6 patio chairs?**

   A. $9\frac{1}{2}$ square yards

   B. 18 square yards

   C. $18\frac{1}{2}$ square yards

   D. 21 square yards

14. **A pipette transfers liquid at a rate of 1.2 milliliters per second. To the nearest milliliter, how much liquid will be transferred in 18 minutes?**

A.   18

B.   22

C.   1080

D.   1296

15. Juanita bought one CD for $7.99 and one DVD for $8.99. The sales tax on these items was 7%. She also bought lunch for $4.25, including tax. If Juanita started with $40, how much does she now have?

A. $17.58

B. $18.77

C. $21.23

D. $22.42

16. **The price of gas rose from $2.40 per gallon in January to $3.00 per gallon in April. What was the percent increase based on the original price?**

A.   20%

B.   25%

C.   60%

D.   80%

17. **A picture frame in the shape of a square has a length of 6 centimeters. If the length is increased by 200%, what is the new length of the picture frame?**

A.   12 cm

B.   18 cm

C.   600 cm

D.   1200 cm

18. **Daniel's mother has a 15% discount coupon she plans to use at the grocery store today. After the discount is applied, how much will she pay for an item that originally costs $7.80, before applying sales tax?**

    A. $1.17

    B. $6.30

    C. $6.63

    D. $7.65

19. **Kyle is running on a track that is a quarter-mile around. He runs at a speed of 9 minutes per mile. How long will it take Kyle to run 20 laps around the track?**

    A. 12 minutes

    B. 45 minutes

    C. 144 minutes

    D. 180 minutes

20. 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