Decimal Operations and Conversions Test Review

1. A candy bar contains 12% sugar. How is this percent written as a decimal?

   A. 12   B. 0.12 ⃝   C. 0.012   D. 0.0012

2. The box below contains equivalent values.

$5\frac{3}{20}$	515%	$5\frac{15}{100}$	5.15	$\frac{103}{20}$

   Which number is equivalent to the values in the box?

   A. $\frac{515}{100}$ ⃝   B. 5.15%   C. $5\frac{15}{20}$ D. 515

3. Which two values are both equivalent to 45%

   A. 0.45 and $\frac{9}{20}$ $\frac{45}{100}$ ⃝   B. 0.45 and $\frac{4}{5}$ C. 4.5 and $\frac{9}{20}$ D. 45 and $\frac{9}{20}$

4. Choose the decimal that would be between $\frac{1}{2}$ and $\frac{7}{8}$.   .5   .875

   A) 0.12   B) 0.5   C) 0.65 ⃝   D) 0.875

5. In Mr. Jackson's PE 95% of the students can complete the BEAR Trail Run. Which of the following is NOT equivalent to 95%?
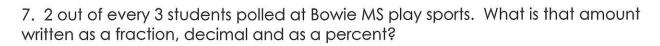
   A. $\frac{19}{20}$ B. 0.95   C. $\frac{9}{5}$ ⃝   D. $\frac{95}{100}$

6. 5 out of 8 students polled said their favorite class was MATH ☺. Write this amount as a percent.

   A. 62.5% ⃝   B. 58%   C. 625%   D. 0.625%

   $\frac{5}{8} = .625 = 62.5\%$

7. 2 out of every 3 students polled at Bowie MS play sports. What is that amount written as a fraction, decimal and as a percent?

A. $\frac{2}{3}$, 0.23, 23%

B. $\frac{2}{3}$, 2.3, 66%

C. $\frac{2}{3}$, $0.\overline{6}$, $66\frac{2}{3}$%

D. $\frac{2}{3}$, 0.6, 60%

8. What is the value of the expression shown below? $12 + 43 \cdot 8$

$$12 + 86 \div 2 \bullet 2^3$$ $2 \cdot 2 \cdot 2$

$12 + 86 \div 2 \cdot 8$

A. 1388   B. 392   C. 270   D. 356

9. Mr. Doremus spent $10.20 to place an ad in the newspaper. This price included a one time fee of $5.99 plus $0.10 per word. Which method can be used to determine the total number of words in the ad Mr. Grant placed?

A. $(10.2 - 5.99) \div 0.1$

B. $(10.2 \div 0.1) \div 5.99$

C. $(10.2 \times 5.99) \div 0.1$

D. $(10.2 + 5.99) \div 0.1$

10. Mr. Martin bought some soda for a party. The price of each type of soda is shown below. Mr. Martin bought 3 liters of Dr. Pepper and 4 liters of Sprite. How much did Mr.Martin spend on soda?

Prices for Soda

Soda	Price per Liter
Dr. Pepper	$3.50 (3)
Sprite	$2.25 (4)

A. $10.50
B. $9
C. $10.59
D. $19.50

11. 6.48 ÷ 0.4 =

12. 46 − 23 ÷ 5

13. 0.12 × 0.3 =

14. The perimeter of the track around Mark's school is $\frac{9}{10}$ miles. Jacob's goal is to run 7.2 miles a day. How many times must Jacob run around the track to meet his goal?

A. 0.8   B. 6   C. 6.48   D. 8

15. Dylan bought 2 hats for $35 and Jackson bought 3 hats for $42. What is the *difference* in cost per hat?

   A. $3.50
   B. $7.00
   C. $0.70
   D. $4.50

16. Mr. Valentine is purchasing 4.5 lbs. of turkey that costs $2.90 per lb. How much change should Mr. Valentine receive if he gives the cashier $20.00?

   A. $6.95
   B. $13.05
   C. $15.50
   D. $1.60

17. Cassie pays a monthly fee of $30.00 for 200 text messages plus $0.35 for each text message over her limit of 150. What is the total amount Stephanie paid for these five months, not including tax?

   A. $101.55
   B. $150.00
   C. $154.55
   D. $13

Month	Text Messages
May	201
June	199
July	205
August	207
Sept.	194

18) The average person's stride length, the distance covered by one step, is approximately 2.5 feet long. How many steps would it take the average person to travel 12.5 feet?

   A) 0.5   B) 5   C) 31.25   D) 15.0

19) Katie is 121 centimeters tall. Ron is 16.4 cm shorter than Katie. Callie is 12.4 centimeters taller than Ron. Lisa is 0.9 cm taller than Callie. How many centimeters tall is Lisa?

20) Matt is collecting coins. He found 6 on ebay that he wants to add to his collection. If the coins are between $5.95 and $6.55 each which amount could be the total cost of the cards?

   A) $30   B) $40   C) $6   D) $50