2015 Hayden Middle Math Tournament - 5th Grade Written Test

- 1. In what quadrant is the point(-2,5) located?
 - A. I B. II C. III D. IV

2. What is the probability of rolling a prime number on a 6 sided number cube?

- A. $\frac{1}{4}$ B. 50% C. 20% D. $\frac{2}{3}$
- 3. What is the mean in the following set of numbers? 14.5, $16\frac{1}{4}$, 15, 28.25, 12.75, 24, 18.75
 - A. 157.4 B. 21.5 C. 14 D. 215
- 4. What digit is in the thousandths place 13,546.76045?
 - A. 3 B. 4 C. 0 D. 4
- 5. What is the sum of the GCF and LCM of 8 and 20?
 - A. 42 B. 28 C. 10 D. 44

6. Matt has 6 model cars. How many ways can he arrange the model cars on his display shelf?

A. 28 B. 720 C. 126 D. 36

7. The Green's spent a total of \$75.25. Their vehicle can travel 300 miles on a full tank of gas(15 gal). If they paid \$21.50 for every 10 gallons of gas, how many miles did they travel?

A. 41 miles B. 656 miles C. 32.8 miles D. 700 miles

8. What is the complement of 34?

A. 145 B. 124 C. 180 D. 56

9. Valentine's Day, Monday, Feb. 14th is 35 days away from yesterday. What day will the day of the week will the day after tomorrow be?

A. Monday B. Tuesday C. Thursday D. Friday

- 11. What is the sum of 4.932 and 78.1439?
 - A. 78.637 B. 1274639 C. 73.2119 D. 83.0759
- 12. What is the product of 93.4 and 5.28

A. 493152 B. 492952 C. 493.152 D. 492.952

- 13. Calculate: $\sqrt{196} \sqrt{81}$ A. 5 B. 9 C. 10 D. 6
- 14. What is $13\frac{2}{5} 5\frac{9}{12}$ A. $8\frac{7}{20}$ B. $8\frac{6}{20}$ C. $8\frac{13}{20}$ D. $7\frac{13}{20}$
- 15. List in order from least to greatest: $-0.6, \frac{2}{5}, \frac{3}{8}, -\frac{1}{4}, -.08$ A. $-0.6, -0.08, -\frac{1}{4}, -\frac{3}{8}, \frac{2}{5}$ B. $-0.08, 0.6, -\frac{1}{4}, \frac{2}{5}, \frac{3}{8}$ C. $0.08, -\frac{1}{4}, \frac{2}{5}, \frac{3}{8}, 0.6$ D. $-0.6, -0.08, \frac{3}{8}, -\frac{1}{4}, \frac{2}{5}$

16. The number of sides in an octagon times the number of sides in a square plus the number of sides in a triangle minus the number of sides in a decagon =

A. 28 B. 38 C. 25 D. 5

17. Elise is making bows for her friends. She bought a spool of ribbon that had $24 \frac{9}{12}$ feet of ribbon on it. After making 5 bows she has $17\frac{1}{4}$ feet of ribbon left. How much ribbon does it take to make each bow?

A.
$$7\frac{1}{2}$$
 feet B. 9 feet C. $1\frac{1}{2}$ feet D. 2 feet

18. What is $\frac{1}{3}$ of $\frac{4}{8}$ of $\frac{3}{4}$? A. $\frac{12}{24}$ B. $\frac{7}{12}$ C. $\frac{1}{2}$ D. $\frac{1}{8}$

19. Change $\frac{9}{24}$ to a percent.

A. 37.5% B. 35.7% C. 42.5% D. 45.2%

20. Divide four and thirty three hundredths by five

A. 0.87 B. 0.86 C. 0.866 D. 8.6

21. What is the probability of choosing an odd number that is red in a standard deck of 52 cards?

A. $\frac{5}{26}$ B. $\frac{5}{13}$ C. $\frac{2}{13}$ D. $\frac{5}{26}$

22. Mrs. Jemison loans one student a pencil on Monday. If each day Mrs. Jemison determines that she is loaning double the number of pencils from each previous day, how many pencils will she loan out on the eleventh day?

A. 144 pencils B. 66 pencils C. 1,056 pencils D. 2,112 pencils

23. What is the difference between the supplement of 124 and the complement of 75?

A. 41 B. 19 C. 49 D. 71

24. Which of the following is an irregular polygon?



25. $5(8 - 3) + \{15 + 3 \cdot 30 \div (20 - 15) + 12\} - 4^{2}$ A. 54 B. 12 C. 157 D. 152

Tiebreakers

1. Jim is building a pen for his new puppy. The perimeter of his pen is 457.2cm. He is trying to buy fencing. It is priced \$12.99 per yard. How much will he spend on fencing for his pen? (Hint there are 127cm in 50inches)

2. What is the missing length of Quadrilateral B if it has the same area as Quadrilateral A?



3. Find the difference between the remainder and the divisor when 9879 is divided by 5.