**Time:** 60 minutes **Directions:** Each of the 25 multiple-choice questions is followed by five possible answer choices. Choices A through D will provide answers, while Choice E is for none of the above (NOTA). Scoring will be as follows: 5 points for a correct answer, 0 for a wrong answer, and 1 for a blank answer. Figures are not necessarily drawn to scale. Calculators are not permitted.

1. Jessie travels four times as fast as Doreen. If Doreen travels at mph, how fast in mph does Jessie travel?

**A. 18 B.**  **C. 72 D. 75 E. NOTA**

2. By the time Jessie reaches her home at Oriental Avenue, her gas tank is only 20% full. If she has driven 240 miles, how many more miles can she drive before she totally runs out of gas? Assume Jessie started driving with a completely full gas tank.

**A. 40 B. 60 C. 240 D. 300 E. NOTA**

3. Fancy Farrah purchases Boardwalk and Park Place for $400 and $350, respectively. What is the sum of the digits of the least common multiple of 400 and 350?

**A. 8 B. 10 C. 12 D. 14 E. NOTA**

4. How many of the following are true statements of the Distributive Property?

I. 

II. 7 + 9 = 9 + 7

III. 3(4+5)=

IV. (x + y + z)(2a) = 2ax + 2ay + 2az

**A. 1 B. 2 C. 3 D. 4 E. NOTA**

5. Kathryn orders a lemonade drink to cool herself off while riding and reading on the Reading Railroad. Because she holds a membership card, she gets 15% off her purchase. How much does she pay for her drink after the discount, excluding tax, if the original price of the drink is $2.60?

**A. $0.29 B. $0.39 C. $2.21 D. $2.31 E. NOTA**

6. Before Kathryn drinks her lemonade, she decides to calculate the volume of her drink. If the height of her cylinder-shaped glass is 10 inches and the diameter of her glass is 4 inches, what is the volume of her lemonade in cubic inches, assuming her glass is only  full with lemonade? Note that for a cylinder.

**A. 32π B. 40π C. 128π D. 160π E. NOTA**

7. Kathryn begins to sip her lemonade at a constant rate. If she can drink 4π cubic inches of lemonade in 6 minutes, how much lemonade in cubic inches can she drink in 21 minutes?

**A. 14π B. 15π C. 16π D. 17π E. NOTA**

8. Brian gallops on his horse to Illinois Avenue, which is Daniel's property. How many different combinations of $1, $5, $10, and $20 bills can he use to pay Daniel $20 for rent? Assume Brian can use as many of each bill as he pleases (he can also use 0).

**A. 6 B. 8 C. 10 D. 12 E. NOTA**

9. According to the order of operations,. Jason is curious and wants to evaluate expressions without any parentheses. Help Jason evaluate  if he still follows the order of operations.

**A. 3 B. 12 C. 17 D. 20 E. NOTA**

10. If you throw doubles three times in a row, you must go to jail. What is the probability of throwing doubles three times in a row? Assume both dice thrown are fair, six-sided dice.

**A.**  **B.**  **C.**  **D.**  **E. NOTA**

11. Nick owns St. James Place. He sets up a password system for his property using the operation sΩt=. To enter his property, he must enter the correct value of 4Ω3 according to the operation. What value should he enter?

**A. 17 B. 20 C. 56 D. 58 E. NOTA**

12. If Andrew lands on St. James Place, how much rent in dollars must he pay Nick if $56 more than the rent is equal to 5 times the rent?

**A. 14 B. 15 C. 16 D. 17 E. NOTA**

13. Which of the following points is on the line ?

**A. (2,**  **) B. (2,** **) C. (3,** **) D. (3,1) E. NOTA**

14. Simplify the expression: 

**A.**  **B.**  **C.**  **D.**  **E. NOTA**

15. Joanna and Angela journey to Pacific Avenue to go swimming. If Joanna swims at 200 ft/min and Angela swims at 160 ft/min, how many minutes will it take Joanna to catch up to Angela if Angela gets a 2 minute head start?

**A. 4 B. 8 C. 12 D. 16 E. NOTA**

16. Solve the equation below for x, the number of hotels Katherine owns.

7x+5=4(8+x)

**A. 9 B. 10 C. 11 D. 12 E. NOTA**

**For questions 17 and 18, use** **, where M is the amount of money in dollars Jessie has at time t, in minutes.**

17. How many dollars does Jessie have after half an hour?

**A. 1.50 B. 63 C. 1683 D. 2053 E. NOTA**

18. If Jessie needs to pay income tax 20 minutes into the game, and she has the option of paying $200 or 10% of her total money, how much would she save by paying 10% of her total money rather than $200?

**A. $31.70 B. $72.30 C. $127.70 D. $168.30 E. NOTA**

19. Stacy purchases Marvin Gardens and Connecticut Avenue for a total of $400. If Marvin Gardens costs $80 less than three times the price of Connecticut Avenue, what is the absolute value of the difference in price between the two properties Stacy purchases?

**A. 40 B. 80 C. 120 D. 160 E. NOTA**

20. Rearrange the equation 7x + 5y = 30 into slope-intercept form.

**A.**  **B.**  **C.**  **D.**  **E. NOTA**

21. Simplify: 

**A.**  **B.**  **C.**  **D.**  **E. NOTA**

22. What is the slope of the line containing the points (3, 5) and (6, -13)?

**A. -6 B.**  **C.**  **D. 6 E. NOTA**

23. What are the values of x that make the inequality  true?

**A.**  **B.**  **C.**  **D.**  **E. NOTA**

24. Jamie and Nilay are bidding over the price of New York Avenue. Jamie starts the bidding, then Nilay bids, and the process continues in this manner. Jamie always bids $50 more than Nilay while Nilay always bids what Jamie bids. If Jamie and Nilay take turns bidding, and Jamie's starts the bidding with $x, what is Jamie's third bid in terms of x?

**A.**  **B.**  **C.**  **D.**  **E. NOTA**

25. All the 13 people listed in this test played a game of Monopoly. Use the following clues to determine who finished 7th.

* Nilay's finish is represented by an odd perfect square
* Kathryn's finish is represented by the number with the most factors
* Stacy's finish is represented by an even prime number
* Daniel's finish is represented by a perfect cube
* Andrew finished two places behind Stacy
* Doreen finished one place ahead of Daniel
* Jessie's finish is represented by the number that is neither prime nor composite

**A. Andrew B. Brian C. Doreen D. Nilay E. NOTA**