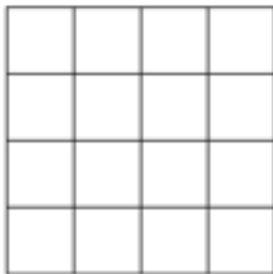


The choice E. NOTA means that none of the other answers are correct. Good luck!

1. Jill rides the bus from school to her bus stop, and then walks from her bus stop to her home. If the entire trip takes 28 minutes, and she walks ten minutes longer than she rides, how long does she walk?

- A. 9 minutes B. 10 minutes C. 18 minutes D. 19 minutes E. NOTA

2. How many squares are there in the 4 by 4 grid below? (Consider all sizes of squares!)



- A. 16 B. 17 C. 28 D. 30 E. NOTA

3. Find the missing number in the following sequence: 57, 45, 33, ??, 9.

- A. 19 B. 20 C. 21 D. 24 E. NOTA

4. The quotient of two numbers is 0. What is their product?

- A. 0 B. 1 C. 2009 D. need more info E. NOTA

5. A circle has radius 7 cm. Find the circumference of the circle, using $\frac{22}{7}$ as an approximation for pi (π).

- A. 14 cm B. 22 cm C. 44 cm D. 154 cm E. NOTA

6. Evaluate $1 + 1$.

- A. 0 B. 1 C. 2 D. 3 E. NOTA

7. Jack is currently three times as old as his son. Fourteen years later, Jack will be twice as old as his son. What is Jack's current age?

- A. 24 B. 28 C. 30 D. 42 E. NOTA

8. At the Rickards Invitational, the first group of students to arrive had 3 people. Each group that arrived had twice the amount of people than the group before them. How many people, in total, arrived in the first 5 groups?

- A. 15 B. 93 C. 189 D. 216 E. NOTA

9. The denominator of the fraction $\frac{A}{B}$ is 15 greater than the numerator. If $\frac{A}{B} = \frac{2}{3}$, find $A + B$.

- A. 5 B. 10 C. 15 D. 75 E. NOTA

10. Dhyran ran three laps around the soccer field. The first lap took 15% of his total time, the second lap took 25% of his total time, and the third lap took 60% of his total time. If all three laps took a total of 10 minutes, how many **seconds** did it take Dhyran to run his first lap?

- A. 1.5 B. 90 C. 150 D. 360 E. NOTA

11. Jason has 6 coins, and each coin is either a penny or a quarter. How many different amounts of money could he have?

- A. 4 B. 5 C. 6 D. 7 E. NOTA

12. The median of seven consecutive integers is 4. What is the mean of the seven integers?

- A. 4 B. 6 C. 7 D. 28 E. NOTA

13. On a map, two cities are 34 cm apart. The map legend gives that 1 cm on the map represents a distance of 80 meters. Using the approximation 1 meter = 3.3 feet, what is the distance between the two cities in **feet**?

- A. 112.2 B. 264 C. 2720 D. 8976 E. NOTA

14. When three times a number is added to 36, the result is 54. What is the number?

- A. 6 B. 9 C. 12 D. 18 E. NOTA

15. The Department of Transportation decides to increase the speed limit from 70 mph to 80 mph. How much faster does Joe, who must travel 560 miles, arrive when driving at the new speed limit?

- A. 1 hour B. 2 hours C. 7 hours D. 8 hours E. NOTA

16. The cost of 5 pieces of gum is equal to the cost of 2 pieces of licorice. The cost of 5 packs of gummy worms is the same as 40 pieces of gum. How many pieces of licorice cost the same amount as a pack of gummy worms?

- A. 1 B. 2 C. 4 D. 8 E. NOTA

17. The mean ages of 10 students is 19.5. If three of these students are 16 years old, what is the mean age of the other seven students?

- A. 19 B. 19.5 C. 21 D. 24.5 E. NOTA

18. Compute 567×432 .

- A. 24494 B. 234871 C. 244944 D. 345055 E. NOTA

19. A square has area 8 times its side length. What is the area of the square?

- A. 8 B. 36 C. 56 D. 64 E. NOTA

20. Thirty percent of a number is equal to sixty percent of 200. What is this number?

- A. 100 B. 300 C. 400 D. 600 E. NOTA

21. Jim has 5 cards: the 10, 7, 6, 5, and 2. Bob asks Jim for his highest card, which Jim gives to Bob. Bob then asks Jim for his second highest card still remaining in Jim's hand, which is the:

- A. 5 B. 6 C. 7 D. 10 E. NOTA

22. A store reduces the price of shoes by 30%. If the original cost of the shoes was \$45, what is the new (reduced) cost of the shoes?

- A. \$9.00 B. \$13.50 C. \$31.50 D. \$43.65 E. NOTA

23. If $X = 1762 + 2412 + 9812$, what is the sum of the digits of X ?

- A. 27 B. 28 C. 34 D. 45 E. NOTA

24. Define the operation $a\Psi b = 2a + 5b$. What is $7\Psi 2$?

- A. 9 B. 14 C. 24 D. 39 E. NOTA

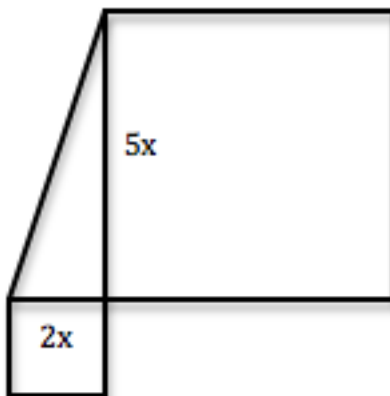
25. Ray made 10 of his first 15 free throw attempts. How many of his next 35 free throws must he make to bring his percentage of free throws made (for the first 50) to 80%?

- A. 15 B. 25 C. 30 D. 35 E. NOTA

26. Hannah is stacking cans. She puts 10 cans on the bottom row, 9 cans on the next row, 8 on the next, and so on until she gets to the top row with only 1 can. How many cans are in her stack?

- A. 36 B. 45 C. 50 D. 55 E. NOTA

27. The figure shown below consists of two squares with side lengths $5x$ and $2x$, and a right triangle with leg lengths of $5x$ and $2x$. If the total area of the two squares and the triangle is 884, what is x^2 ?



- A. 25 B. 26 C. 27 D. 34 E. NOTA

28. Compute $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5}$.

- A. $\frac{27}{30}$ B. $\frac{67}{60}$ C. $\frac{5}{4}$ D. $\frac{77}{60}$ E. NOTA

29. Matt's bedtime is 10:00 P.M., and it is currently 11:03 A.M. Matt will have to go to bed in:

- A. 4020 seconds B. 39240 seconds C. 39402 seconds D. 39420 seconds E. NOTA

30. The product of two numbers is 45 and their sum is 14. Find the positive difference between the two numbers.

- A. 4 B. 5 C. 9 D. 31 E. NOTA