**Choose the letter of the correct answer. In all cases, NOTA means “none of these answers”**.

1. Dash Parr needs to win his race and has to get from the point (9,10) to (309,410). What is the slope of the line segment between the two points?

**A)  B)  C)  D)  E) NOTA**

2. Mr. Incredible needs a secret number to enter the Omnidroid 9000. The number is hidden in the equation as “x” in 14x - 29 = 17x + 16. What is “x”?

**A) 15 B) 12 C) 9 D) -15 E) NOTA**

3. Dash felt like running. He went out on his street and was clocked at  mph. What was his speed in exact form in mph?

**A)  B)  C) 19 D)  E) NOTA**

4. Find ,which is Dash’s current age.

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

5. For Violet Parr to turn invisible, all she has to do is submit any number within the given inequality into her heroes watch,. Find one possible number that she can submit to turn invisible by solving the inequality.

**A) 4 B) 6 C) 8 D) 9 E) NOTA**

6. For Syndrome to successfully program the Omnidroid 9000, he needs to find the sum of the following series: (-127) + (-126) + (-125) + …. + 125 + 126 + 127. What is the sum?

**A) -287 B) -439 C) -387 D) -155 E) NOTA**

7. Mr. Incredible finds himself throwing Syndrome “x” number of yards. How far did Mr. Incredible throw Syndrome in yards? To find the answer, find “x” in the equation

x2 – 5x – 150 = 0.

**A) 5 B) 10 C) 15 D) 25 E) NOTA**

8. In his own Mini Mu Test, Jack-Jack runs into the expression (8x+7)(4x-5). If Jack-Jack multiplies the expression into a trinomial in the form of ax2 + bx + c, what is

a + b + c?

**A) -15 B) -10 C) 10 D) 15 E) NOTA**

9. What is the degree of the following polynomial :

14x8 + 8x7 + 3x6 + 14x9 + 15x4 + 9x3 + x2 + 814x + 13 ?

**A) 7 B) 8 C) 9 D) 15 E) NOTA**

10. Mr. Incredible is in his car following the path of the line y = 3x + 5. A girl named Eun is running along the path y = 21x + 41. What is the sum of the abscissa and the ordinate of the intersection point of the two paths?

**A) -3 B) 0 C) 3 D) 46 E) NOTA**

11. Violet has made scores of 84, 99, 78, 93, and 90 on her quizzes. She wants to wind up with an average of exactly 90. What must Violet get on her last quiz to get that average?

**A) 92 B) 93 C) 97 D) 99 E) NOTA**

12. Kelsey is swimming in a race against Dash Parr. She is swimming at 250 miles per hour. She has to go from point A to point B and back. On the way there, a 100 mile per hour current slows her down and on the way back, the same current is a 100 mile per hour speeds her up. Normally, it takes her 2 hours to swim the length of the race without any wind involved. How many hours will it take for her to complete this race (to the nearest tenth)?

**A) 1.5 B) 1.6 C) 2 D) 2.4 E) NOTA**

13. Edna is the designer of the capes of all the Incredibles. Popular demand for the cape has led to an increase in cape production per day. The number of capes produced per day is equal to the number of positive primes with a value less than 36. How many capes does Edna produce per day after the spike in demand?

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

14. Mr. Incredible has another secret power besides super strength. He knows every single multiple of three. Which of the following numbers would Mr. Incredible pick if he was told to find a multiple of three?

**A) 9876543210 B) 2839401728 C) 16492738504 D) 283749182837 E) NOTA**

15. Transform the following equation in slope-intercept form into Standard Form:

y = 7x + 9

**A) y - 7x - 9=0 B) 7x – y + 9 = 0 C) 7x + y = 9 D) 7x – y = -9 E) NOTA**

16. What is the solution set to the equation: 4x2 + 64 = 128?

**A) {4} B) {8} C) {16} D) {2} E) NOTA**

17. Mr. Incredible needs to hurl Miranda towards Bailey to keep her away from a fire. Miranda’s geographical coordinates are (4, 38) and Bailey’s geographical coordinates are (11, 62). What is the distance Mr. Incredible must hurl Miranda?

**A) 22 B) 25 C) 27 D) 35 E) NOTA**

18. Syndrome is ready to unleash his force of DOORS, disgustingly, obnoxious, over-the-top, robot secretaries. They come at an alarming pace towards the Incredibles. Elastigirl needs to know how many of these robots there are. The number of robots is equivalent to the decimal number of 210 - 4. How many robots are there?

**A) 508 B) 516 C) 1020 D) 1024 E) NOTA**

19. The number of DOORS Syndrome produces from his almighty factory is inversely proportional to the number of Incredibles inside the building. When there are two Incredibles in the building, 50 DOORS can be made. How many DOORS can be made when ten Incredibles are present?

**A) 80 B) 40 C) 20 D) 10 E) NOTA**

20. Andrew and Morrie have obtained a trunk of coffee cups. The cups are numbered 431, 432, 433, … 1343, 1344, 1345. How many cups are in that trunk?

**A) 912 B) 913 C) 914 D) 915 E) NOTA**

21. Amanda has a secret; she loves frozen lemonade. Who doesn’t? The number of cups of frozen lemonade she has in her freezer is the value “x” in the following equation, 4x+19=83. How many cups of frozen lemonade does she have?

**A) 12 B) 16 C) 20 D) 24 E) NOTA**

22. Given the perpendicular lines Ax – By = 10 and Ay – Bx =10. What is the product of the slopes of the two lines assuming neither A nor B equal zero?

**A) -1 B) 0 C) 1 D) 100 E) NOTA**

23. Dash is for some reason entranced by the Fibonacci Sequence 1, 1, 2, 3, 5…. What is the sum of the first 10 terms of the Fibonacci Sequence?

**A) 59 B)100 C)131 D)143 E) NOTA**

24. Mr. Incredible has an addiction to German Chocolate Cake. He has to sneak past his wife without telling her though. He is currently 35 feet from the door, and can tip-toe at 6 inches per 5 seconds. How long will it take, in seconds, for him to reach the door while tip-toeing assuming he tip-toes in a straight line?

**A) 250 B) 200 C) 350 D) 400 E) NOTA**

25. Mr. Incredible is in his cubicle. The dimensions of the cubicle are 8 feet x 4 feet x 5 feet. Mr. Incredible has a volume of  cubic feet. How many Mr. Incredibles can fit inside the cubicle? Yes, we are counting decimals.

**A) 4 B) 4.5 C) 5 D) 5.5 E) NOTA**

26. Edna has a dilemma. She always does. Her suit making machine is broken and she needs to get rid of it. However, she must report the dimensions of the machine to the landfill before disposing of it. The machine is in the shape of a cube with side length of 5 feet. However, Edna miscalculates and reports a volume that is 25 cubic feet more than the true volume. What volume in cubic feet did Edna report?

**A) 100 B) 125 C) 150 D) 175 E) NOTA**

27. What is ?

**A) 18 B) 81 C) 108 D) 156 E) NOTA**

28. If 32x = 243. Then what is the value of 2x?

**A) 27 B) 12 C) 9 D) 3 E) NOTA**

29. If Mr. Incredible has 4 distinct jackets, 8 distinct pants, and 9 distinct pairs of socks, how many different ways can he wear a jacket, pants, and a pair of socks?

**A) 32 B) 144 C) 300 D) 288 E) NOTA**

30. What is -122?

**A) -144 B) -24 C) 24 D) 144 E) NOTA**