Trivia-Discrimination-Part-1-Math

Survey Flow

Block: Intro (1 Question)
Standard: Demographics (8 Questions)
Standard: Math (50 Questions)
Standard: Final (1 Question)

EndSurvey: Advanced

Page Break

Start of Block: Intro

Q1 Thank you for participating in this survey!

The survey has two parts. In the first part you will answer some very basic demographics questions. In the second part you will answer 50 multiple-choice math questions.

We are interested in determining how many of these math questions you can get right without any help. So please **do not** use a calculator or look up the answers online, but rather just do your best. The number of questions you answer correctly will not affect your payment in any way.

End of Block: Intro

Start of Block: Demographics

Q52 Please answer the personal profile questions below:

Q53 What is your favorite color?

_____

Q54 What is your favorite movie?

_____

Q55 Do you prefer coffee or tea?

- ○ Coffee (1)
- ○ Tea (2)

Q56 What is your age?

_____

Q57 What is your gender?

- Male (1)
- Female (2)

Q58 What is your favorite subject in high school?

_____

Q59 What is your favorite sport?

_____

End of Block: Demographics

Start of Block: Math

Q2 *Q1.* What is the square root of 289?

- 15 (1)
- 17 (2)
- 19 (3)
- 21 (4)

Q3 *Q2.* 4-8*9/2 = ?

- -32 (1)
- -18 (2)
- -12 (3)
- -6 (4)

Q4 *Q3.* 3^5 = ?

- 81 (1)
- 243 (2)
- 405 (4)
- 729 (3)

Q5 *Q4.* 5*6*7 = ?

- 210 (1)
- 233 (4)
- 240 (2)
- 180 (3)

Q6 *Q5.* What is the reduced form of the fraction 70/42?

- 5/3 (1)
- 10/6 (4)
- 7/5 (2)
- 14/10 (3)

Q7 *Q6.* What is the cubic root of 64?

- 4 (1)
- 5 (5)
- 6 (4)
- 3 (2)

Q8 *Q7.* (4+5)/5 = ?

- 5 (1)
- 1.8 (2)
- 6.25 (3)
- 1 (4)

Q9 *Q8.* x+2 < 18/3. Which of the following is necessarily **false**?

- x < 4 (1)
- x > 4 (2)
- x < 3 (3)
- x > 3 (4)

Q10 *Q9.* x^5 * x^8 = ?

- x^11 (1)
- x^12 (2)
- x^13 (3)
- x^14 (4)

Q11 *Q10.* Which of the following is approximately equal to 0.833?

- 5/6 (1)
- 6/7 (4)
- 4/5 (3)
- 3/4 (5)

Q12 *Q11.* x=5, y=6, z=7, then what is xy/(z-4)?

- 10 (1)
- 4 (4)
- 6 (2)
- 8 (3)

Q13
Q12. Which of the following is the closest integer to 45/7?

- 5 (1)
- 6 (4)
- 7 (2)
- 8 (3)

Q14 *Q13.* Which of the following is an integer multiple of 9?

- 3618 (1)
- 3619 (4)
- 3617 (2)
- 3620 (3)

Q15 *Q14.* 10/5+34-4 = ?

- 32 (1)
- 34 (4)
- 36 (2)
- 30 (3)

Q16 *Q15.* (x-1)*(x^2-4)=0, then which of the following **cannot** be x?

- 1 (1)
- -1 (4)
- 2 (2)
- -2 (3)

Q17 *Q16.* What is the square root of 196?

- 12 (1)
- 13 (2)
- 14 (3)
- 15 (4)

Q18 *Q17.* 5-6/(18/9) = ?

- 2 (1)
- -2 (4)
- 0.5 (2)
- -0.5 (3)

Q19 *Q18.* (y+9)*(y^2-121)=0, then which of the following **cannot** be y?

- 9 (1)
- -9 (4)
- 11 (2)
- -11 (3)

Q20 *Q19.* Which of the following is an integer multiple of 11?

- 132 (1)
- 133 (4)
- 131 (2)
- 130 (3)

Q21 *Q20.* 5+6+7+8+9+10 = ?

- 45 (1)
- 42 (2)
- 48 (3)
- 51 (4)

Q22 *Q21.* What is the binary form of 7?

- 100 (1)
- 101 (4)
- 110 (2)
- 111 (3)

Q23 *Q22.* 35/7+1 = ?

- 6 (1)
- 7 (4)
- 5 (2)
- 4 (3)

Q24 *Q23.* 24/4/3 = ?

- 2 (1)
- 3 (2)
- 4 (4)
- 1 (3)

Q25 *Q24*. Which of the following in an integer multiple of 4?

- 56 (1)
- 74 (2)
- 66 (3)
- 62 (4)

Q26 *Q25.* Which of the following is **not** a prime number?

- 2 (1)
- 3 (2)
- 4 (3)
- 5 (4)

Q27 *Q26.* 2*3*4*5 = ?

- 24 (1)
- 120 (2)
- 240 (4)
- 720 (3)

Q28 *Q27.* 6^3=?

- 36 (1)
- 216 (4)
- 128 (2)
- 432 (3)

Q29 *Q28.* (4*2+7*8)/4=?

- 16 (1)
- 20 (2)
- 24 (3)
- 12 (4)

Q30 *Q29.* Which of the following is a prime number?

- 21 (1)
- 23 (4)
- 25 (2)
- 27 (3)

Q31 *Q30.* 16 < x+8 < 26. Which of the following could x be?

- 8 (1)
- 18 (2)
- 13 (3)
- 23 (4)

Q32 *Q31.* 45+3-1 = ?

- 46 (1)
- 47 (4)
- 48 (2)
- 49 (3)

Q33 *Q32.* x^6 + x^6 = ?

- x^12 (1)
- 2x^6 (4)
- (2x)^6 (2)
- x^36 (5)

Q34 *Q33.* Which of the following fractions cannot be further reduced?

- 3/5 (1)
- 3/6 (2)
- 7/35 (3)
- 46/2 (4)

Q35 *Q34.* Which of the following numbers has an integer square root?

- 32 (1)
- 36 (2)
- 40 (3)
- 48 (4)

Q36 *Q35.* 5*(7+3)+5-4 = ?

- 51 (1)
- 55 (2)
- 39 (3)
- 32 (4)

Q37 *Q36.* Which of the following is **not** a factor of 30?

- 2 (1)
- 3 (2)
- 4 (3)
- 5 (4)

Q38 *Q37.* x^6 / x^4 = ?

- x^10 (1)
- x^2 (4)
- x^24 (2)
- x^(2/3) (3)

Q39 *Q38.* 56/8 = ?

- 5 (1)
- 6 (4)
- 7 (2)
- 8 (3)

Q40 *Q39.* 2^4 - 3^3 = ?

- -11 (1)
- 11 (2)
- -9 (3)
- 9 (4)

Q41 *Q40.* (18+19+20)/3 = ?

- 18 (1)
- 19 (4)
- 20 (2)
- 21 (3)

Q42 *Q41*. Twenty **cannot** be divided by which of the following?

- 2 (1)
- 3 (2)
- 4 (4)
- 5 (3)

Q43 *Q42*. 4+8+12+16 = ?

- 20 (1)
- 40 (2)
- 25 (3)
- 45 (4)

Q44 *Q43*. (x^5)^3 = ?

- x^8 (1)
- x^15 (2)
- 3x^5 (3)
- 5x^3 (4)

Q45 *Q44.* Which of the following is the correct factorization of 36?

- 4 * 9 (1)
- 2^2 * 9 (2)
- 4 * 3^2 (4)
- 2^2 * 3^2 (3)

Q46 *Q45.* 3^2*2 = ?

- 18 (1)
- 81 (4)
- 24 (2)
- 42 (3)

Q47 *Q46.* -2*(-3-8) = ?

- 22 (1)
- -22 (4)
- 14 (2)
- -14 (3)

Q48 *Q47.* Which of the following is an integer multiple of 5?

- 45 (1)
- 46 (2)
- 43 (3)
- 44 (4)

Q49 *Q48.* x^4 = 81. What is x?

- 3 (1)
- 6 (2)
- 9 (4)
- 20.5 (3)

Q50 *Q49.* 76/4 = ?

- 17 (1)
- 18 (4)
- 19 (2)
- 20 (3)

Q51 *Q50.* Which of the following is negative?

- 2^2 (1)
- (-2)^2 (2)
- 2^3 (3)
- (-2)^3 (4)

End of Block: Math

Start of Block: Final

Q60
Thank you for your participation. In addition to your base payment, we may put a small bonus into your account sometime in the next few weeks. Who receives the bonus payment is determined by a different experiment that we are doing and is unrelated to how well you did in the task. Please just think of it as an additional appreciation for your efforts.

End of Block: Final