The latest version of the machine by memories of mathematics

- 360 title Edition (Update)

Write Description: This information is gathered from summer 2018 to the current math test questions, topics were memories from the candidates, the selection and proof-reading after Zhang Wei teacher gathered together. This version has been updated to 360 questions (continuously updated after each exam)

Wei brother: for this reason the machine through a GRE math is difficult to continue to change, and change the pit, so I wanted to give the students see the latest math exam. After every exam I will go to the students to help me remember, here, I want to thank the students to share you, are you and I created this machine through together, I try to choose the sorting machine by both puzzles and pit problems. In addition, because the students to recall describing the problem, individual topics may narrative is not particularly clear, I'll be late optimization, I hope you can understand.

Zhang Wei teacher introduced: Scriptures GRE founder, GRE industry master teacher, online GRE years of teaching experience, training a total of more than 60,000 students, in-depth study GRE Exams, and teaching methods. Personal guidance to complete the "fill in the blank machine by 1300 problem" and resolve, "the reader through 300" and resolve, "GRE math 170 problems" and resolve, "GRE math machine after 200" and resolve, "math score Collection" and resolution, machine data and applications via the "town by the word test machine 6.0", "equivalent total vocabulary" and "GRE test 3000 town the word" back the word app and other highly favored candidates.

Get answers and analytical way: Focus on micro-channel public number: Zhang Wei teacher GRE. Enter "math recalled by the machine answers."

Example 1: x <y, and in the x, y, 120 of these three numbers, median = 100, x and Q 90 which is large?

Example 2:40 <x <y <z <60, xyz are even, seeking of x + y + z range.

Example 3: The same circle intersects two radii r (Each circle a further circle just over the center), the center area of the triangle, and wherein a sum of two intersections is formed.

Example 4: a (number four multiplication mass) 77 is the result of the addition is a multiple of 5; does it divided by 7, the number may be equal;

A. 110

B. 220

C. 330

D. 440

E. 550

Example 5: (k + n) / 2, and k_n / The remainder of the magnitude relationship 2, k and n are positive even number.

Example 6: The original 10,000, up 20% over last year, 20,000 to 25,000 years after the (variable item selection)

A. 3

B. 4

C. 5

D. 6

Example 7: Mathematics have a problem with the calendar January 1 is a Saturday, with 1/364 representation (the first day of the year left 364 days) ask you this day Tuesday after twenty weeks of how representation

Eight cases: a and b are positive integers, a_{2+} b_2 = 145, ask a + b possible values of

Example 9: the number 1-1000 (inclusive) in a randomly selected number, find the probability of having at least a number 6

10 cases: 2≤r <s≤6, r and s are integers, Q (r + s) / maximum value is the number?

Example 11: A device filled with water for 12 minutes, B to the device filled with water for 20 minutes, filled with water and asked how much two minutes.

Example 12: a triangular longitudinal sides 3 and 4, respectively, the angles are all less than 90 degrees, the length of the third side asked range

Example 13: The chair is six times the number of tables, a desk, a chair is 9 times the weight of the total weight of the table is 12,000, and asked all the chairs and tables of the total weight is.

Example 14: Three share price are the x, 2x, x + 2 and x> 2, and asked to provide the following information which can be calculated x, uncertain item multiple-choice questions

A. arithmetic average

B. median

C. range

Example 15: x and n are positive integers, 8x / n <x / 200, find the smallest possible value of n.

Example 16: Digital 1575 the number of positive factors.

Example 17: There are two commodities is one monovalent 2dollar, one monovalent is 3dollar, ask a person to buy things took 15dollar, asked him to buy a total of how many products.

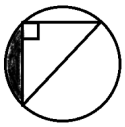
18:15 digits cases, eight larger than 50.4, 54.6 less than eight, asked the median size of 52.5 and relationships.

Example 19: 1 to 100 (inclusive) comprising neither a multiple number of the number 3 is not a multiple of 7.

Example 20: (x + 1) / x = 10; find (x + 1)$_2$ And 12 compare the size.

Example 21: a collection of all odd-numbered from -50 to 50, and the other set is from 10 to 30, the intersection of the first, and then averaging the intersection.

Example 22: inner circle isosceles triangle, one side of which is the diameter of the circle, the radius of the circle 5, the shaded area seek



Example 23: charitable donations, company B is added on the basis of collecting donations donations, raised to 9000 yuan before, the company B for each donation to a 3- additional $ 1, the money raised after 9000, the company B for every $ 5 donation to an additional 2 million, plus additional contributions of company B asked, to raise 68,000 how much money the charity needs to raise?

Example 24: The total number of children a family is a prime number less than 10, the number of known than the number of boys over girls, girls and boys are prime number, ask the number of children in this family.

Example 25: a jacket J S spent more than 17% M 12% spend more than J M asked how much to spend more than S

Example 26: A to make a work to do the same work with T h ho 3T u, together with several asked to do T

Example 27: abc average seek 11 abc 8 is the average number of

Example 28: a triangle drawn on a plane rectangular coordinate system, the coordinates of the three vertices are (-1, 3), (-1, 5), (1, 7), find the area of the triangle.

Example 29: seeking (1-1 / 100) the value of (1 + 1/101) * (1-1 / 102) · (1 + 1/103) * (1-1 / 104).

Example 30: x and y are integers, 4≤x <7 <y≤12, seeking (xy)$_2$ Very poor.

Example 31: a center of the circle is the origin, the radius of the circle is 5, there is a straight line slope of 0.5, and this line through the origin, the coordinate of the intersection P of the first quadrant and the Line circle.

Example 32: Two (a, 2) and (b, 6) distant from, the absolute value of Q and the relation ab 3.

Example 33: n is a positive integer, n squared be divisible by seven, asked more than 7 n is the number 1 and in addition to the comparison of which large which small?

Example 34: one exam 10 exam, the average score is 75 points, 100 points out of the examination paper, how many times he wants to test at least 100 and then test to make equally divided into 90 or more.

Example 35: a · b · c · d · e- (a + b + c + d + e) = f, f is an even number, the number five is asked abcde impossible even number is the number?

Example 36: x⊙y = x-2y, seeking 1⊙ (2⊙3) and [- (1⊙2)] ⊙3 the magnitude relation.

Example 37: n is a positive integer, $(2/3)^n (3/2)^{-n}$ And a size comparison.

Example 38: 1-2000 (inclusive), both a perfect square and perfect number is the number of cubic meters.

Cases 39:32^{19}- 32 is the number of digits?

Example 40: Comparison of two area of a circle, a circle of radius r, another circle of radius r squared.

Example 41: 1, -2, 3, -4, ..., the first 99 digits and ask.

Example 42: x is less than y is less than Z, and the median is less than average, Q x + z 2y magnitude relationship.

Example 43: 15% of the class is 16 years old or older, at least how many students are there in the class?

Example 44: a circle, a central angle of 80 °, the arc length 6, adjacent to a central angle of the arc length is 3, you ask the rest of the circle arc length is how much

Example 45: 702368 × 96638 times between 10 and several side side

Example 46: All three digit 7,8,9 three digits (digit can be repeated) and how much.

47 cases: x> 0, y> 0, and the product Q root x and y root root magnitude relation of x + y.

Example 48: a known $a_1 = 1$, $a_2 = 1$, $a_n = 0.2a_{n-1}$ N≥3, a comparator a_6 And $25^3 (0.2)^{10}$ the size of.

Example 49: parabola $y = x^2$ Rightward by three units, and asked which of the following points on the graph after the translation. A. (0, 0) B. (2, 0)
C. (3, 0) D. (1, 1)

Example 50: a = (- 1/37)$^{-2}$, seeking 37^{-12} How much equal? A. $-a^{-1}$ B. a^{-1} C. a D. -a E. a root

Example 51: Give $x^{2+y^2} = 52$, x> y, and x and y are positive integers, and comparing the size of 4 x.

Example 52: 1 <x <2, Q 1 / x + 2 / x + 3 / x with x + x / 2 + x / 3 size comparison.

Example 53: The number of equilateral triangles and squares may be much intersection (no coincident edges).

Example 54: 1,2,7 three digit random composition with a three-digit (number can be reused), able to find the three-digit number divisible by four and the magnitude relation between the probability of 7/27.

Example 55: a bag only equal number of red and green balls ball, no other balls. A person start purse for a ball, and then do not get back into a ball and asked that the probability of the following options is 1/2. (Variable item multiple-choice questions)

A. The first ball is a green ball

B. green ball second ball

C. Only twice a green ball is a ball

Example 56: There are two male and five female. And then to 4 randomly selected individuals. Must ensure that at least one man and one woman. Q. There are a few election law.

Example 57: 1,2,3,4,5,6 selected from any two numbers (no duplication) forming a two digit number, the even asked how many can be formed.

Example 58: four rooms assigned to three (three properties are given room, the room is a double, two rooms are single, double two people must live, like in a certain single person), four a and B can not live in a room, and asked how many rooms of a total points system.

Example 59: a known number of columns, a is $_1$ = 1, a $_2$ = 2, a $_n$ = a $_{n-2}$ + a $_{n-1}$ And asked which of the following is the number of columns in the number of entries. (Variable item selection)

A. 8 B. 15 C. 21 D. 24 E. 34

Example 60: the collection is a three-digit integer, all in the form of J-K-L, while jkl are all non-zero digit; and jk, kl (kl k · l but not directly positioned such digits) can be divisible by 9. how many integer in this set?

Example 61: 8 to 44 (inclusive) is the standard deviation of the even A, 23 to 59 (inclusive) is the standard deviation of the odd B, and Comparative A and B sizes.

62:50 Example 2 has a part which is bad, 2 is bad selected probability

63:67 48 individual cases like car racing 27 per person likes sky either love racing either love or like sky and asked a few people both love racing and he likes to sky.

Example 64: A total of 50 people, choose a course of 30 people, choose another door is 50 people, two classes are selected is the maximum number.

Example 65: a normal distribution, mean is 50, the standard deviation is 5.4, Q is the number of more or 45-48.6 55.4-59 number of people

Example 6 red balls 66:10 basketball, turn out two without replacement, the probability of two different colors and asked to come up with.

Example 67: There are five gifts, 2 of which are cash, 3 one is gift, not to be drawn back into the evacuated twice, once asked the probability of at least able to get cash ?.

Example 68: Someone needs to import a number of sets of bottles Each bottle charges $ 12.04, and it also charges $ 4.8 for shipping each set (not single bottle but a whole set) The standard deviation of numbers of bottles in each set is 1.5 . What is the standard deviation of the prices for each set?

Example 69: 3 couples, 6 stools, sit next to the couple, a total of several sitting method?

Example 70: Two set A = {1, 2, 3, 4, 5}, B = {6, 7, 8, 9, 10}, Q elements A and B are added (each set A and B from the take a summing element) how many possible values.

Example 71: a parking garage with a 1-650 number, a number for each car, car tail number 1,2,3,4,5 drawn in an area, referred to in the car No. 130389 (inclusive) of a truck, Q truck in zone 1 of the proportion of all trucks.

Example 72: xx = event occurrence rate probability / probability of an event does not occur, said of the coin toss face up xx rate is 3/7, the probability asked face up

Example 73: that people go to the ER doctor, there are 692 individuals have health insurance, there are 162 people had to be hospitalized, and then there are 102 people hospitalized have health insurance, ask how many people are not hospitalized Medicare.

Example 74: 391 package, packaged in three ways: 20 $ 3.00; 12 $ 2; 5 1 dollar. Will all with five packed much more expensive than the price of the least packaging way

Example 75: 100-1000 (inclusive) while the 3 and 4 there are several divisible.

Example 76: A and B, and five others photographic queue, is in the middle three positions A, B and A next, how many to ask a personal Total arrangement.

Example 77: 9^{78} The remainder is divided by 5 is.

Example 78: A total of 210 people, including 160 candidates for the physical, chemical 80 candidates, 60 candidates for the creature, a person can not simultaneously learning 3 subjects, asked to learn what percentage of the total number of persons 2 family.

Example 79: the equation ax^{2+} 5x-6 = 0 has two solutions, a is 3, c is a, Q a and c of the magnitude relation.

Example 80: double-digit in the tens can all be accounted fraction of the double-digit divisible by 2.

Example 81:!!! 400 (! 18) and 20 +19 +18 which is great.

Example 82: a box there are 7 balls, of which one is red, not replacement, extraction, be able to get the red ball stopped and asked a total of three times to stop pumping and pumping a total of 4 times the probability of large who stopped.

Example 83: 5 identical plastic ball, there are three different boxes, each box to ensure that there is at least one plastic ball, and asked how many put the law.

Example 84: a class of eight people, including five girls. If you want to choose two of them a class leader, a squad leader when the deputy asked the probability of two men they are girls.

85:54 Example III can be divisible N-th power, the power of 192 K can be divisible by 3, and asked to compare the size of N and K

86 cases a group of people, professional people and mathematics is the same gender as the male proportion of people, mathematics and accounting for boys 0.05, neither mathematics nor the boys accounted for 0.15, mathematics ask proportion.

Example 87: There are five points on the straight line y = 5x + 30 standard deviation abscissa is a longitudinal five points 4.6, Q coordinates of five points is the number of standard deviation

Example 88: R * R is the hundreds digit digit exchange, then there is a R, 2 digits larger than the hundreds digit, the Q value with the R * -R which is larger than 200

Example 89: During transport, the probability of plate crack of 1/2, the probability of another plate case (for the time being recorded as an event it b) two-thirds of both crack and b probability 1/3. After the shipment reaches the existing 80 a plate neither crack nor b occur. How many dishes for this group

Example 90: a total of 10 days, three people time to attend classroom are 6 days, 7 days, 8 days, then there is only one day three people attended the class, just ask how many days there are only two students to attend class.

Example 91: This relationship between the two and four interior angles of the square and, four positive pentagon the angles of

Example 92: n is a positive integer, a = 7^n , B = 9^n Asked a and b of the single-digit adding what could be? (Variable item selection)

A. 10

B. 12

C. 14

D. 16

Example 93: an n-gon, a positive side row n + 1. 2n + 1 in the median number of angle, the value b is a value of 90

Example 94: 7^{34} Single digits by 6^{30} The single-digit product

Example 95: 5 gift card, a 100 knife, a knife 50, a knife 25, two 10 knives (each identical), composed of 10 individuals to allocate (per person up to a card), how many points law.

Example 96: a survey, 65% of the drug considered effective, 48% effective exercise that while 72% think that an effective drug ineffective exercise, ask what percentage of that exercise simultaneously active drug that is not valid.

Example 97: clothes 30, 10 respectively red 10 yellow 10 black, 30 which is selected from five items of clothing, asking five Probability red and black as a yellow.

Example 98: A total of 20 songs, two people get a list identical, a person mark of 15 their favorite songs, another mark of 12, I ask which of the following options can not be the number of songs they also mark.

A. 6

B. 7

C. 8

D. 9

E. 10

Example 99: k is an integer, ask $k^2 - k$ and then dividing the remainder 0 size 2.

Example 100: 123456789 ... 499 500 (this number is from 1-500 such consecutive 500 digits), find this number, a total of how many?

Example 101: number even divisor of which of the following options than the number of odd divisor of.

A. 6

B. 10

C. 20

D. 30

E. 2

Example 102: x, n, k are integers, $0 < x < 10^7$, $X = n^k$, Units digit x is 5, x is both a square integers is another integer cube, ask how much x.

Example 103: n> k> 1, Q (nk) and the magnitude relation n -k!!!.

Example 104: plus 90 ° and the interior angle hexagon and pentagon interior angle and the size comparison.

Example 105: normal mean is 56, 4, the proportion of the size of 62-64 60-62 and comparative standard deviation.

Example 106: 7 integer, range is 4, the median is m, the number of bits smaller than the maximum number is m-3, who asked the mean and median large.

Example 107: volume of a tank filled with water is g, the intake of water per minute into the x, y is the water outlet out of every minute, and y is greater than x, the water tank is asked how much time is left after half , expressed by x, y, g.

Example 108: There are seven teams, each team and six other teams have to play three games, a total of how many games to play.

Example 109: 18 people selected snacks, staple, three kinds of vegetables (or not selected), each type of selection is not limited. Selection of vegetables in 12 people, there are 3 people did not choose the staple food snacks, there are 2 people did not choose the staple food snacks, snacks and staple four people were elected. Q ratio of these 18 individuals selected vegetables only human.

Example 110: There are 15 dance programs, not duplicate, nine are new, ask the probability that two programs are beginning a new program.

Example 111: a group of people to participate in activities, 40% of teachers, 80% among teachers have master degree, ask the teacher is not master of the probability and magnitude than 1/5

Example 112: a component fail the first time with a probability of 0.1, if the first time with no fail, then the probability of six months without fail is 0.8, so compare the size (A is the probability of six months without fail , B 0.75)

Example 113: the numbers 1, 2, 3, 4, 5, 6 in a random selection Q is selected from either greater than the probability of 3 or even or both.

Example 114: ABCDE five people, five seats, A and B must take the first or the last, asked a total of how many sitting method.

Example 115: length ratio of the sides of a triangle is 3: 5: 7, Q and the maximum angle 84 ° as compared

Example 116: number of more than 345,606 square divided by 20 is the number?

Example 117: a prime number less than 100, the remainder being 5 except 2, the remainder is divided by 7 is 6, the Q is a prime number other than 8 after a few.

Example 118: 5 so that a power factor is a maximum value of 1500 and 3 such that b is a maximum power factor b value of 33,333,333, which of the following statements is correct (variable item selection)

A. a × b = 3

B. a = 3b

C. 2a> 5b

Example 119: (0,3) (3,3b) (b, 3), b is a constant, the area of a triangle formed by three points 18, seeking b

Example 120: 1, 2, three printers, work together to complete a required nine hours, if only 2 and 3 work 12 hours to finish the job, ask if there is only 1 job, how much time do the job .

Example 121: 100-159 (inclusive), not more than ten-digit and 3-digit number is not greater than the proportion of 4.

Example 122: There are n digital set S, a subset of set S 2 contains exactly six digits, find the value of n.

Example 123: | 1- | x-250 || = 1, Q x the number of possible values.

Example 124: m and n are both prime numbers, m + n = odd number, m <n, m and Q 3 size comparison.

Example 125: X and Y are two random events occur, appears a total of seven times, the first time if X, then the next appearance is also the probability of X 0.3, if Y first appeared, then the next time also the probability of occurrence of Y is 0.4. If the fifth occurrence is X, then the probability of occurrence of the seventh X is.

Example 126: five standard differential price of the house is A, in which three price 45,000 after five standard differential is B, and comparative AB size

Example 127: each interior angle of a regular polygon degree between 100-130 degrees, may be asked several polygonal (variable item selection).

Example 128: u is an integer, ask u, -2u, 3u, -4u, 5u, -6u, median 7u and size relationships of u.

Example 129: 4, 5, 7, 8, 11 these figures, from which five digit numbers randomly selected as the length of three sides of a triangle, the triangle can be formed and asked what is the probability.

Example 130: There are a number of columns, $a_1 = 4$, $a_2 = 2$, for any integer n greater than 2, has $a_n = a_{n-1} + a_{n-2}$, Then before 60 the number of columns, the number of entries is a multiple of 3.

Example 131: s and t are positive integers, the following options which can be secured t / s is an integer. (Variable item selection)

A. s <t

B. $s = t^{2+} t$

C. t = (s + 1) (s-1)

D. s^2 Is t^2 Factor

E. s + 1 to t + 1 is a factor of

Example 132: a city license plate from the front of the three letters and four numbers later, which can not use the letter "O", figures may not use, ask a number of possible license plate number for it.

Example 133: $3 + 3^{2+} 3^{3+} 3^{4+} 3^{5+} 3^6$ 0 size and the remainder divided by 6

Example 134: 500, was asked two questions can only be answered yes or no, answer the first question is yes there are 440 people, the second issue of 220 people said yes, K on behalf of the two issues say yes the number, ask how much K minimum.

Example 135: $2^{2012+} 3^{2012+} 5^{2012+} 7^{2012}$ The units digit is.

Example 136: n and m are positive integers, the function f (n) = n (n + 1) / 2, Q $(-1)^{f(4m+1)}$ and 1) $^{f(4m+2)}$ The size of the relationship.

Example 137: There is a plant, there are two morning evening shift. A total of 840 early morning people, including 252 female. Evening 700 people. Then the proportion of men and women is the same as the morning and evening classes. The evening is entitled to ask how many people are male.

Example 138: 7 kindergartens children of different height rows of seats, three short of the first row, a second row of four high, and asked how many rows Method

139 cases: 1 <a <b <c <d <e <f, A: a, c, e of the median, B: b, d, f of the average

Example 140: abc is three consecutive positive even asked which of the following options must be an integer (variable item selection)

A. (a + b + c) / 2

B. (a + b + c) / 4

C. (a + b + c) / 6

D. (a + b + c) / 12

E. (a + b + c) / 15

Example 141: 7 people playing games, two people to play each game, every two people have to play 5 times, a total of seven people ask how many times you want to play.

Example 142: to a digital form, are about 20-40. Q. Which of the following options to make the most standard variance reduction.

Save all numbers 20 A.

Save all numbers 10 B.

C. All figures divided by 2

D. All figures multiplied by 0.1

E. All numbers into the original 80%

Example 143: n, p, k are integers, $n_p = 10k + 3$, n may be asked how much.

A. 11

B. 12

C. 15

D. 17

E. 19

Example 144: a pot full of water mixed with five bowls, or 8 cups now mixed with a bowl full, then the bowl of water into a cup, filling, ask the rest of the bowl a few water accounts a few points.

Example 145: 100 to 900 (inclusive) with a three-digit number satisfying the condition: This figure and the front and rear two and two are 7.

Example 146: pentagon perimeter and each side midpoints pentagon formed from the pentagonal perimeter size comparison.

Example 147: There are a number of columns, $a_1 = 4$, $a_2 = 2$, for any integer n greater than 2, has $a_n = a_{n-1} + a_{n-2}$, Then before 60 the number of columns, the number of entries is a multiple of

Example 148: A total of 10 positive integers, the sum of 101, each number appears only once, and asked the 10 positive integers in the largest possible value is.

Example 149: Compare the number 87 and number 97 of this reason.

Example 150: $1575 = 3^m \times 5^n \times 7^p$, Find the value of m + n + p is.

Example 151: x is an integer, for the three $x + 3^{-x}$ Minimum.

Example 152: root root 108 = a × b, a + b Q possible values.

Example 153: 2 Comparative 2^x And x^{2x} Size, x is a negative integer.

Example 154: a number of columns $a_n = a_{n-1} - a_{n-2}$, $a_1 = -5$, $a_2 = 4$, a seek a_1 To a_{100} And.

Example 155: If n and m are positive integers and m is a factor of 2^6, what is the greatest possible number of integers that can be equal to both 3n and $2^6 / m$?

Example 156: three consecutive integers the sum of three or more and equal to a few possible add, 0,1,2,3,4 option.

Example 157: n is a positive integer, n is divided by 3, the remainder is 1, Q $n^2 + n - 2$ which is divisible by some digits.

Example 158: There are five numbers in a set which, where m is the difference between median, and maximum number m is 6, and the difference between the minimum number m is 2, and m averages comparing the size of five digits.

Example 159: m <n, and are negative integers and Comparative $7 + 10^m$ And $10 + 5^n$ the size of.

Example 160: probability of event A is 0.63, the probability of occurrence of event B is 0.58, Q maximum probability of A and B simultaneously.

Example 161: principal one is S, then the annual interest rate r%, if calculated according to compounding, the size of the total amount after the person and comparing two S (1 + 2r%) of.

Example 162: 1 to 100 up to digital (Inclusive) in which the set composed of the number.

A. multiple of 3

B. 4 multiples of

C. 5 of multiples

3 and 4, a multiple of D.

E. 4 and 5 of the multiple

163 cases: | 2 + k | = | 2-k |, k and comparing the size 0.

Example 164: $y_1 = 2x^2 - 2$, $y_2 = -2x^2 - 2$, two curves asked how many intersections.

Example 165: x and y are positive integers and Comparative 165 x And 156 y Single-digit size.

Example 166: a three-digit number, each digit can be divisible by 3, find this number is odd ten and one hundred is the probability of an even number.

Example 167: No. 5 stock market value of 6,000 yuan, compared to the 4th fell 8%, equal to No. 6 and No. 4 stock market capitalization, rose 6 ask much more than the No. 5.

Example 168: A password consists of five symbols, contains an @, $ 2, 2 #, asked a total of how many different passwords can form.

Example 169: $a_1 = 2$, $a_2 = 5$, $a_n = a_{n-1} / a_{n-2}$, Seeking a_{135}.

Example 170: 25 integer, are between 1 and 10 (including 1-10), the average number of 8.8, in addition to the minimum number of 24 is the sum of 217, find this set of data range.

Example 171: a total of five goals, a red ball, four green balls, while select two balls, two balls are asking the probability green ball is.

Example 172: There are several values of x satisfies | x^2 - 5x | = 1.

Example 173: a polygonal other than polygon interior angle of 360 degrees and a large, more than a few Q side length.

174 cases: a class A total of 30 people, including participating in the music club 17 people, participate in scientific club of 15 people, if the number of people participating in a club at least per person, asked to participate in both music and participate in the science club.

Example 175: 4^{32} - 3^{32} What is the single digits.

Example 176: a ≠ 0, comparing $(a + 1 / a)^2$ And the relationship between size 2

Example 177: elect three kinds of random numbers from 1,2,3,4, how many numbers can be larger than 300.

Example 178: 2- Comparative 2002^{2002} - 2003^{2003} And 2^{2004} The size of the relationship.

Example 179: There are two groups AB, A group of 20 male, 40 female, 7 and the Group B at least some of the male female, from each of two groups selected from a person, they are selected to or less than the probability of boys equal to 1/15 of the situation. Q. Which of the following statements must be true (variable item selection)

A. the number of people in group B is greater than 34.

B. the number of girls in group B is greater than 32.

C. the number of girl in group B is less than 34.

Example 180: There are two sets, A = {1, 2, 3}, B = {1, 2, 3, 4}, the 4-digit number and A set B of Comparative composition A can be set can be composed of three the counted number (numbers can be reused).

Example 181: K is a prime number, 40K and 39K two numbers to compare their two largest prime factor in the number who big?

Example 182: a and b are positive odd number, ask ab + digit 1 may be a few? (Variable item selection)

A. 0

B. 1

C. 2

D. 3

E. 4

F. 5

Example 183: usually need to pay 8% tax, special holiday will suspend, but only for the price of the commodity under 100, the man bought 8 things, the price is 292, more size, A: Tax 8 things; B: 20

Example 184: a positive integer less than 100, the remainder is 3 divided by 5, 6 is divided by the number is 2. Compare this figure may be the relationship between the size and number 4.

Example 185: x / 2 = n, n is a positive integer, the value of X may ask!

A. 160

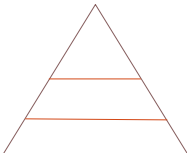
B. 360

C. 580

D. 720

E. 1440

Example 186: fill flower garden, a total of five colors, colors can be reused up to two of the same color, and the same color can not be adjacent, to ask how many combinations of methods have.



Example 187: A: 22,23,24,25,26,27 B: 222,223,224,225, 226,227

Asked the size of the standard deviation of the relationship between A and B, respectively.

Example 188: 1-603 (inclusive), Q is the number 2 or 3, a multiple of the number of.

Example 189: There are (a, b) in a coordinate system, where a and b are positive integers, the number of points Q satisfying a + b≤200.

Example 190: 77 consecutive numbers, the median is 70, the minimum required number.

Example 191: n is a positive integer, n is divided by the number 7 Q and the remainder divided by 2n 7 Who large.

Example 192: $S_1 = 5$, $S_k = 2 \times S_{k-1}$ Asked S_8 And $S_{twenty one}$ S_{13} The size of the relationship.

Example 193: 125 ratio of integers a large integer b, which must ask the following statement is true. (Variable item selection)

A. b is even

B. a is odd

C. a + b is odd

D. ab is even

Example 194: a chemical reaction, there are two substances A and B, B is four times the number of A, A after the reaction becomes 1/4 B, 1/4 B into A, B and A after the reaction of Q proportion.

Example 195: There are a set of odd number from 1 to 999 (inclusive), (r, s) is a point, requires r <s, the point Q satisfy the condition how many.

Example 196: There are five pairs of twins a total of 10 people, from which five pairs of twins inside selected four individuals, two men and two women, and each pair of twins can only choose one person, and asked how many election law.

Example 197: There are four different books, including two books to be put together, ask how many different methods of arrangement.

Example 198: 5 different colored flags sort of requirements must be in the middle of red or green, and asked how many row a total of Law.

Example 199: 7 and 7 only (can also use only one number) is three-digit number between 600 and 770 (inclusive) the number of digits.

Example 200: 100-799 rooms have a number, which is double digit room number was 5 and 6, one hundred 6 and 7, choose a room and asked to choose the probability of a double room is.

Example 201: the median of the consecutive odd numbers is 0.

Comparing the sum of the numbers and the sum of the size of the least and the greatest number of.

Example 202: 7 Number 8, 10, 12, 12, x, y, z (wherein x≤y≤z) median = average = 9, ask the least possible number of x.

A. 0 B. 1 C. 2 D. 3 E. 4

Example 203: 7 number, median is 10, average of 9, the unique mode is 2, Q the greatest number of in this set.

A. 22 B. 23 C. 24 D. 25 E. 26

Example 204: 10 books, four for the fiction, the remaining six into non-fiction (including three for the biography), then as a person to choose three books online reading, and asked him to choose at least one fiction, the probability of at most one biography of and.

Example 205: There is a three-digit, one hundred> ten> bit, two arbitrary digital sum <10, three digit numbers are added and 12, that is the number seeking.

Example 206: There are 68 individual cats or dogs, 48 of them have dogs, 35 cats, but cats do not ask people how many dogs.

Example 207: is the probability of event A P, Q P (1-P) and the magnitude relation of 0.4.

Example 208: 10 balls, four red ball, basketball six randomly selected three balls, Q is the probability of the red ball 3 ball

Example 209: 3_n, 3_{n+1}, 3_{n+2}, 3_{n+3}, 3_{n+4} , N being an integer greater than 1, sizes of the five digital arithmetic mean and median.

Example 210: $C_1 = 1$, $C_i = C_{i-1} \times (1/7)$ (i≥2), Comparative C_{12} And $49_7 \times C_{26}$ The size of the relationship.

Example 211: 7 positive integer arithmetic mean is 8, the median is 8, the mode is the only 7, ask the maximum possible value.

Example 212: a round, square units and the ratio of linear units is 4: 1, Q is the number of radii.

Example 213: y> 1001, the size relationship between y and y / 1000 cubic root of the comparison.

Example 214: a person to save money, deposited May 1990 m, 1991 On May stored again m, 1992 On May stored again m, the interest rate is 4 percent, asked in May 1993 a total of how much money can be taken out.

A proportion of the total number of companies 70% of lawyers, 55% of employees are female, while 60% famale there is a lawyer, asked male lawyer representing the company: 215 cases.

Example 216: 10 balls, 3 red, 4 blue, three green, two randomly selected balls, and asked two balls are red probability.

Example 217: $(a + 1 / a)^2 = 5$, a seek $a^2 + 1 / a^2$ 3 magnitude relationship with.

Example 218: x <y are integers and, if $x^2 + y^2$ It is even, and asked which of the following must be an even number? (Variable item multiple-choice questions)

A. xy B. x + y C. yx D. $x^2 + y$

Example 219: There are two cylinders with oil, a cylinder chassis area of 4 [pi], there are oil level is 5; another chassis area 10π, the oil is highly 6. The oil is now the second cylinder to the first down from the height of the two cylinders ultimate oil are the same, the final height to ask is how much oil?

Example 220: In a private library of biography accounted for 5% paperback, biography cent of all book ratio is 3%, accounting for the number of all ask paperback books.

Example 221: n individual, average 70. Then everyone among ten people rose 5 points, and ask the new Average size 72.

Example 222: 2^{32} The remainder is divided by 3 and 1 to size

Example 223: 6 known points on the circle, the number of points connected to the total number of segments of different size and composition than 15.

Example 224: 8 digits, 5 is an odd number 3 is even, in how many of the eight 3-digit numbers can be composed of one hundred and ten odd, an even number of bits, numbers can not be reused.

Example 225: n (n^2- 1), n is a positive integer which must be a multiple of the following numbers (variable item choice)

A.2 B.3 C.4 D.5 E.6

Example 226: a job, AB do with 4.5 hours to complete the three-quarters. A separate themselves do the remaining work 6 hours, ask the individual B do all the work yourself how much time is required.

Example 227: one number is divided by 36 is the number 27, who asked that a certain number of multiples.

A. 6
B. 7
C. 8
D. 9
E. 10

Example 228: positive integer in a small number of 25, satisfying the condition: and equal to a multiple of a multiple of 4 and 5.

Example 229: (!! 51-50) / (! 50-49!)

Example 230: Definition: refers to the inverse of the harmonic mean of the reciprocal of the reciprocal of the average of x and y. Seeking harmonic mean of 10 and 20.

Example 231: 1 Comparative, 11, 111 and 2, 22, 222 between which a large standard deviation.

Example 232: A household has an expense, the expenditure is 15% of after-tax income, 10% of pre-tax income, ask the percentage (% reservation to the front of the digital decile) after-tax income accounting income before taxes.

Example 233: n is a positive integer, x is 7^n Single digits and y is 3^n The single digits, ask the absolute value of xy which is greater than 3.

Example 234: Proportional math class boys and girls is 4: 5, than the English classes of boys and girls are 5: 4, boys English class 50% more than boys math class, ask the girls math class girls and English classes What proportion

Example 235: A total of 120 people, choose A class of people accounted for 3/5, choose B class accounted for 1/2, just ask chose A class B class people who did not choose a few. Multiple-choice questions.

A. 0 B. 10 C. 12 D. 38 E. 60 F. 72

Example 236: In a first subtracting P from the principal X percent basis, 10 <X <40, in the second year of the first and on the basis of percent by subtracting X, A is the second year of the subtraction after the rest of the money, B is P (1-2X / 100), compare the size.

Example 237: Someone walking time-consuming step s t seconds, ask within 1/10 minutes, she took a few steps.

Example 238: a person has five shirts, 4 pants, three pairs of shoes, which have a pair of pants and a shirt can not mix together, asked a total number of species with the law.

Example 239: personal enumerated starting from 1 consecutive positive integers, inquired about the conditions which uniquely determine his column last number is what? (Variable item selection)

A. 2 appeared 15 times

B. 5 appeared 15 times

C. 8 and 9 appeared 9 times appeared 8 times

Example 240: There are 20 separate class, each class has 27or28 individuals, schools now plan to open a separate class, so that the average mean of 21 class is 0.5 less than the average of 20 class. Asked the class how many new people.

Example 241: root value of 570 ÷ 7 closest to the root number

A. 7

B. 8

C. 9

D. 10

E. 11

Example 242: 25 people to take the test, a person called J score 6.5 points higher than the average score of the original, there is an additional question exam 10 points, assuming that J did the right thing this question, in addition to the J other people cannot do Yes, then J additional questions after count how many points higher than the new ave

Example 243: 1-10 from which these 10 numbers are not repeated two pumping, pumping is a difference of two probability.

Example 244: There is a committee, six professor3 a manager4 a coordinator, requires the formation of a 5-man group. Requirements profeesor in Dr.W and manager of Ms.M be in how many ways.

Example 245: $a_n = 2 \times a_{n-1}$ Without a_n 100 may be divisible, ask a_1 What (variable item selection).

A. 5

B. 10

C. 20

D. 30

E. 40

F. 50

Example 246: set a = {2,4,6} and set b = {2,4,6,8,10,12}, the number of possible sets of m required, so that a subset of m, m is b subset.

Example 247: Given an array have 4,6,12,14, x these numbers, ask x Which of the following can take to minimize the standard deviation of the array.

A. 0

B. 1

C. 10

D. 14

E. 70

Example 248: a known number of columns $a_n=(-1)^{n+1}\times n$, $a_1=1$, seeking the former 99 and how much.

Example 249: probability pumping the ball inside ball from a pile without replacement, the first time able to get the red ball is 5/8, the probability of a second red ball drawn after the first red ball is not able to get 2 / 3, ask first smoked red ball or the ball is the second probability is red ball is.

Example 250: n have families, they each family has two boys and a girl. There are m families, each family they have a boy and two girls. A total of 11 boys and 10 girls, and ask m + n.

Example 251: A first year to earn r, next year is 2 times the previous year. B for the first year earn 10r, 10r and more than the previous year next year. Q. Which of the following is correct (variable item multiple-choice questions)

A. In a second, A earn <B earned

B. In a fourth, A earn <B earned

C. In the eighth, A earn <B earned

Example 252: $123^{4}-123^{3}+123^{2}-123$ Divide that number by 122, the remainder is.

Example 253: 2007^{2007} Tens of how much?

Example 254: There are 100 Cube three colors: a red, white, 4, 95 orange. Two pumping from the inside once. Compare A: probability that at least a red. B: two are white probability.

Example 255: 10 Comparative range and the magnitude relation of 10 consecutive integers.

Example 256: k and n are an even number, comparing the remainder when k^n+n is divided by 2 and the remainder when k^n It is divided by 2 in size.

Example 257: a random variable x, the median is 56, r is a number between 65 and 70 percentile; random variable y, the median is 56, t is the 75th to 80th percentile between the number of bits, comparing the magnitude relation of r and t.

Example 258: a group of persons than the number of second class, ask the individual to determine which option can be higher than the average height of a group of second class average height. (Variable item multiple-choice questions)

A. The average height of the highest class is higher than the second class

B. a group of average height than the second class of higher median height

The median C. higher than the average height of a group of second class Height

Example 259: people participated in choir and orchestra were classified introduction, female 35 people only participated in choir, 26 people only participate in orchestra, 9 two people have participated, two of 40 people do not participate. male 49 people only participated in choir, 14 people only participate in orchestra, 12 people took part in two, two 45 people do not participate. Which of the following is correct? (Variable item selection)

A. 45% of two male does not participate

B. more than 55% of the female only attended one kind

C. participants in the choir, both of which are 20% of people take part

Example 260: k consecutive integers, k is an odd number, the median of consecutive integers m, which is of the following options (variable item selection)

A. These consecutive integers is an odd number and

B. is the minimum number of m - [(k-1) / 2]

C. The maximum number is m + [(k + 1) / 2]

Example 261: n (n 2- 1) / k, and when n is an integer greater than 1, k is the number of times, n (n 2- 1) / k is an integer constant.

A. 3

B. 4

C. 5

D. 7

E. 8

Example 262: 1 pound tea can make 210 cups of tea and 1 pound coffee can make 40 cups of coffee sold in cups of the restaurant is 12 times the amount of coffee in cups of tea. What is the ratio of the pounds of tea to pounds of coffee?

Example 263: 4 different integers, the average is 32, the minimum number is 27, the maximum number of possible ask how much.

Example 264: There are three classes were 10,8,7 number of people, from two individuals selected to participate in the game, and two people can not come from the same class, ask how many election law.

Example 265: abc three letters to fill in a squared inside, can not have the same requirements of each row and each column of a letter can not have the same letter, asked a total of how many rows of law.

Example 266: 1 <r <s <t, Q r · s · t closest to the following options.

A. (r-1) · s · t

B. r · (s-1) · t

C. r · s · (t-1)

D. (r + 1) · s · t

E. r · (s + 1) · t

Example 267: Array A: 12,13,16,19,20 Array B: 12,15,16,17,20 Comparison sequence A magnitude relationship of the standard deviation and number of columns B.

Example 268: f (x) is one more than the greatest integer less than x Comparison f (1.75) and f (1.5) size.

Example 269: 2 comprising including 4 consecutive integers and are 11, comparing this number and size of the column of figures 10.

Example 270: I have a straight line on a plane, a bit line Q, there is little on the plane P to the straight line l is 2, PQ = 3. Comparison of possible points in the plane P number and size of 4.

Example 271: three courses, each class size is 32, there are five people on two courses at the same time, three people simultaneously on three courses, three courses and asked a total number of people?

Example 272: x the price of 2, y priced at 1.5 Which of the following options to determine the average selling price? (Variable item selection)

A. sold a total of 150

B. x y sold more than 50

C. quantity sold x is 2 times y,

Example 273: five different integers, the median is 60, each of the other numbers are between 50 and 70 (inclusive), Q ranges from the sum of these five numbers.

Example 274: a group of parents and children to buy tickets and to eat, parents are 20 bucks a ticket, a child is 10 dollars a ticket. Then the number of parents and children are equal, spent a total of 420 dollars a ticket. Per capita food and then spend the ticket is 21 dollars, and asked to buy food money to children and parents how much.

Example 275: There are four numbers 2,3,4,5, two different numbers from which to choose the composition of double-digit, double-digit inquired all can be composed of a number of prime numbers.

Example 276: black inside the bag and a red ball and the ball, wherein there are more than one red balls and 5 times as many black balls as red balls extracted five balls from the inside of the back is not. He asked pumping the ball inside the red ball number and size 5 ratio.

Example 277: 7 is a number n Its single digits is 9, n may be asked about those number (variable item selection).

A. 101
B. 102
C. 103
D. 104
E. 105
F. 106
G. 108

Example 278: survey number 5,500 per person a year to study, to meet the normal distribution with mean equal to 19 which, standard deviation equal to 2. Q. reading up to 880 individuals at least read how many books a year?

279 cases: a number (inclusive), the number is between 44-53 is divided by 32, is divided by 41, and asked how much this number.

Example 280: n is an odd positive integers, $n \cdot 2^m = 160$, Q n and m size.

Example 281: $x = 10^6 - 1$, asked which of the following options than it factor.

A. 7
B. 9
C. 11
D. 19
E. 111

Example 282: 125w + 25x + 5y + z = 264, wxyz four figures are an integer of not less than 0 and not more than 5, Q w + x + y + z and is.

Example 283: P and S with water, it took 1 hour and 20 minutes to complete the work two-thirds of the rest of the S took 50 minutes to complete, and asked to complete a separate injection P how long.

Example 284: $a_1 = 2$, $a_2 = 3$, $a_n = a_{n-1} \times a_{n-2}$, Seeking a_8 The value?

Example 285: 5 red socks, 4 blue socks, three yellow socks, take back once, then take time to ask two are yellow probabilities.

Example 286: G 5 red, 3 blue, yellow 2; 8 H red, yellow 2 respectively a pump, at least one Q is pumped from the probability yellow G and H two basket.

Example 287: 10 people in four people have certain characteristics to a group of three people team, this team must ask the probability that at least two people who have this feature.

Example 288: 20 applied to such a factor wherein a data, this data is 113 × 123 × 135 × 261 × 293, which is applied to the Q factor such that the final result will be the maximum.

Example 289: There is a trapezoid, the upper base and lower base lengths are 3 and 9, and two oblique sides 6 length is 4, and then drawing a line parallel to the bottom of the vertical trapezoidal vertically into two equal trapezoidal perimeter asked the hypotenuse and the lower trapezoid.

Example 290: ^ n of digits is 23 7, and 8 <n <13, Q value of n.

Example 291: There are five pairs of socks not the same color, if two out sock, two socks are required to get the probability of the same color.

Example 292: There are some people are H Association 30% of R H and associations, R Association, H Association 20% of R are associations. Number two associations comparison.

Example 293: a three-digit number N, the tens digit is x, is the single digits y, and asked N-100x-y must be a multiple Which of the following options. (Variable item selection)

A. 2
B. 3
C. 4
D. 5
E. 6

Example 294: a station every 12 minutes over two kinds of train X and Y, X into a group, Y fled every 20 minutes, from 6 to ask: Which of the following options may be 30 times two cars pitted at the same time: 00-10 . (Variable item selection)

A. 0
B. 1
C. 2
D. 3
E. 4
F. 5
G. 6

Example 295: S set is divisible set of integers 3 in 1000, does this have the collection can not be divisible number 5.

Example 296: garage have trucks and four-wheel vehicles, four-wheel drive trucks accounted for 2/5 trucks, four-wheel drive truck is four-wheel vehicles accounted for a third of all ca, and asked for the garage, both truck It is the proportion of four-wheeled vehicle.

Example 297: A total of 1200 people, including 600 people is greater than the number of men. There is now a policy that 10% of men and 30% of women support, asked a total range of policies to support the number of people about how many? [Males and females may be 0]

Example 298: There are 10 items, of which there are two defects, the article 10 selected from two articles, two articles do not find the probability of defects.

Example 299: 1 / a + 1 / b = 1 / c, a + b = 20, a, b, c is a positive number, c which may be below the value? (Variable item selection)

A. 4
B. 8

C. 12

Example 300: normal = 500 test is the average, standard deviation = 100. There are 10200 number between 500-600, less than 400 ask how many?

Example 301: a b th power of 2 and 3 are 12! In the factor, and asked how much a + b is equal to the maximum.

Example 302: 6 as the ball, on the numbers for the Cup 1-4 to ensure each cup has at least one ball, and asked how many put the law?

303 cases: n telephone lines, then the probability of each barrier is 0.3, each of the individual. Q. How many phone lines can be guaranteed to have at least turned a probability of above 0.99?

Example 304: a total of 11 digits, the smallest of six and 35, and a maximum of six is the number of 125,11 and is 142, the median asking is how much?

Example 305: seeking (-0.5) $^{-2}$, (- 0.5) $^{-1}$, (- 0.5) ^{0}, (- 0.5) ^{1}, (- 0.5) ^{2} The range

Example 306: A company source of income for the two parts A and B, this year's income 42,000, an increase of 5%, where A revenue 10200, an increase of 2%, how much growth year on year Part B?

Example 307: Q within A 1-100 (inclusive) is an even number and B is the square of a number 1-100 (inclusive) is an odd number and is the number of a square, the size ratio.

Example 308: 5,8,9,9,9 hold Withdrawing from two five figures, and the number of pumped out is the probability of a multiple of 3

Example 309: abc three letters fill the table with a 3 × 3, every row and column letters are not repeated, and asked how many rows of law?

Example 310: n is an even number, nj n represents the product of all positive even before, e.g. 18j = 18 × 16 × 14 × ... × 2, find the maximum quality factor is much 22j + 20j.

Example 311: 5 × 10 $^{n+1}$ This figure is divided by the number 3 and the comparative size.

Example 312: the driver did a survey, 36% of the men, woman among them, 48% and 45% of all people hate driving at night, and asked how many of the total number of male survey.

Example 313: n is a positive integer, Comparison 2^{n}, 2^{n+1}, 2^{n+2}, 2^{n+3}, 2^{n+4} The median and the average size of the relationship

Example 314: a fifth of the three coins two very, probability of each heads up is 1/2, and asked heads up the probability is 15 points.

Example 315: a person every three days to do a thing, doing things such as the Monday after next Thursday, will next Monday is still doing things is how many weeks?

Example 316: 0 <a <b <1 <c <d (c and d are integers), a comparator c^{d} And b ^{dc} The size of the relationship

Example 317: n is a positive integer, 72 / n is a positive integer, there are several possible Q n.

Example 318: white ball 100, ball 100 red, green ball 100, ask how many balls have taken to ensure that at least four of the same color of the ball.

Example 319: x is non-negative, the comparator $2^{x+2}+2^{x+2}+2^{x+2}+2^{x}$ And $4^{x+4}+4^{x}$

Example 320: 80 is the 66th percentile, 56th percentile is 60, asking the 46th percentile and 40 of the magnitude relation.

Example 321: From each of which is selected from JONES JOHNONS and a letter, seeking the same two letter probability.

Median size relationship median number of 2-25 (inclusive) the quality and 2-25 (inclusive) of odd: Example 322.

Example 323: ABCDE Five people in five locations, then AC must be put together, asked a total of how many sit Act?

Example 324: 80% of people participated in the survey, what percentage of the men in the survey 65 percent for college students, college students accounted for up to ask?

Example 325: A person has four coats, three pants, two shirts, four scarves. Q. If the first line is set jacket + shirt + pants, scarves may have one, can not, ask a total of how many combinations.

Example 326: third area has a pentagonal, seeking its own half of the edge length of the pentagonal similar area.

Example 327: long sides of a right triangle and the square root of 2 is 3, and the length of the third side relationship Q 3/2

Example 328: a class of 50 people, go to A and B at the weekend, 25 people went to this museum, 25 people of whom 10 B also went to the museum. Q. Which of the following options can count out the number of B Museum (variable item selection)

A. There are two did not go to the museum 20 people

B. The number of people did not go two museums are two museums have gone twice the number of people

C. number number two museums have gone to B is only twice

Example 329: 210 the number of factors is the product of two primes

Example 330: p and n is a positive integer less than 30, p is a prime number, an odd number n non-quality, n + p can not be?

A. 48

B. 50

C. 52

D. 56

E. 44

Example 331: cell feed per day 104 newspaper, wherein the number of households to 3 parts by newspapers to 1 parts by twice the number of households newspaper, the number of households to 2 parts by newspapers to 1 parts by number of households newspaper 3 times, and asked to the number of households 2 newspapers is how n

Example 332: 70 people from the inside out selected three individuals held various positions there are 6840 kinds of methods, find someone to act as if these three positions are the same, then how many ways?

Example 333: There are 24 different digit (the figure does not 6,7,8,9 four repeats), the 24 digits in accordance with this ascending order, ask 8697 Rows of cis how many?

Example 334: 1 4 digit number can be 0, 1 (number can be reused), and all three digits, asked how many

A digital to meet the requirements of the subject?

Example 335: F club has 20,000 members, M club has 30,000 members, plus the number of members together is 45,000, ask a person selected from F club where he has a probability of M club members is how much?

Example 336: A and B to a game awards two companies, including a total of 10 AB Company. Four winning companies, asking A and B at the same time winning several ways.

Example 337: Q comprises a set of 20 elements in the range between 0 and 1, set R has 20 elements, and in which the elements according to the following rules, for Q is any element X, if X≤1 / 2, then X contained in R, if X is greater than 1/2 and less X≤1 2X-1 contained in the set R, Q set of standard deviation of the elements Q and R in the magnitude relation.

Example 338: 264 remainder divided by 8 3 How much?

Example 339: seeking 100-200 (inclusive) is the number of digits a multiple of 4 but not multiple of 5.

Example 340: There is a series of 19 consecutive even-numbered, -14 is the smallest even number, ask the median number of columns in the number?

Example 341: Two sets of data are standard deviation 8.5, and then mixed with two sets of data, the standard deviation of the magnitude relation after mixing and Q 17.

Example 342: $a_1 = 1$, $a_n = a_{n-1} + n$, asked a_{49} Value.

Example 343: X + Y = 9, the maximum XY ask is how much?

Example 344: an odd two-digit number, which is the probability that even the tens digit is the number?

Example 345: 10 positive integers, and 101, no more than twice a number to another number and asked: inside the maximum number of 10 this number is how much?

Example 346: 0.$\overline{abcde}$ is a recurring decimal (abcde five different numbers, digit abcde cycles), then this number = 1 / X, X is a positive integer, and X Q 83 of the magnitude relation.

Example 347: playing games, you can take 2point or 4point, Xiao Ming's average is 3.8, and asked to take 9 times higher than the 2 points, 4 points and take the relationship between the size of the number.

348 cases: three different primes smallest product multiplied by 750 is greater than 6 and size comparison.

Example 349: 12345678910 is divided by the number and size of 1 to 9.

Example 350: length of the diagonal of the two squares were 10 and 20, the area ratio requirements.

Example 351: 1-200 (inclusive) all multiples of 3 and 6 all multiples than the average size.

Example 352: $p = n^{2+} 1$, p is a prime number, n being an integer, and p and comparing the magnitude relation of 17.

Example 353: 6 identical 1-4 to put the ball in the cup, each cup at least one ball, and asked how many put the law?

Example 354: There is an angle of an isosceles triangle is 62 °, the remaining Q magnitude relation of the two angles.

Example 355: compare the size of the relationship 111/1111 and 1111/11111.

Example 356: There are 25 different numbers, the number of bits smaller than the average number is 100, the average is larger than the median number is 200, the average number of 25 which is a multiple of 25, the Q the median is probably how much (variable item multiple-choice questions)

A. 120

B. 125

C. 130

D. 145

E. 175

F. 180

Example 357: A plant in X salary 90th percentile, B Y, the salary in the 70th percentile, Q (alone) can know which of the following conditions is higher than a determined wages A B

A. XY as the average salary of all employees of the two plants

The median B. X factory wages higher than the Y

80th percentile C. X factory wages is greater than the 70th percentile of Y Factory

Example 358: a set of 31 elements, to find which subset from the set, and asked to meet the number of elements which is the number of subset of the subset 16 odd power of 2 and compare the size relation.

Example 359: 0 <a <b <c <d <e and are integers, Q a, b, c, d, e, and a + 1, b, c, d, e-1 standard deviation of the magnitude relation.

Example 360: 27 cube, 20 red, 7 blue, if this 27 cube consisting of a large cube, ask most

More than a few red faces. (This plane refers to a small cube face)