* **गणित (Maths)** *

नमस्कार दोस्तो , आज की हमारी यह PDF भारत का गणित (Maths) से संबंधित हैं , जिसमें हम आपको गणित (Maths) के 100 ऐसे महत्वपूर्ण Question and Answer बताने जा रहे हैं जो बार – बार प्रतियोगी परीक्षाओं में पूंछे जाते है ! ये Question आपको SSC , RRB , Banking , PSC व अन्य सभी तरह की प्रतियोगी परीक्षाओं जिनमें कि गणित (Maths) पूंछा जाता है सभी में काम आयेंगें ! तो आप इन्हें अच्छे से पढिये और याद कर लीजिये !

500 Most Important गणित (Maths) Questions for Competitive Exams

* **Part :- 5** *

* **गणित (Maths) Q-A** *

सभी प्रकार की प्रतियोगी परीक्षा में गणित (Maths) से सम्बंधित प्रश्न अनिवार्य रूप से पूछे जाते हे। यह आपको 100 ऐसे महत्वपूर्ण प्रश्न उलब्ध करा रहे हे जो आप के आगामी परीक्षा के बहुत उपयोगी सिद्ध होंगे।

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Ques. The respective ages of a father and his son are 41 and 16 years. In how many years will the father be twice as old as his son?

(a) 19 years

(b) 9 years

(c) 15 years

(d) 10 years

Ans. (b)

Ques. Three years ago the average age of Abhya and Avani was 18 years. With Pari joining them now, the average becomes 22 years. How old is Pari now?

(a) 24 years

(b) 26 years

(c) 23 years

(d) 25 years

Ans. (a)

Ques. The product of the ages of Bill and Jeff is 240. If twice the age of Jeff is more than Bill's age by 4 years, what is Jeff's age?

(a) 10 years

(b) 11 years

(c) 12 years

(d) 13 years

Ans. (c)

Ques. In 10 years, Rupal will be twice as old as Briana was 10 years ago. If Rupal is now 9 years older than Briana, find the present age of Briana.

(a) 39

(b) 27

(c) 45

(d) 26

Ans. (a)

Ques. The difference between the ages of two persons is 8 years. 15 years ago, the elder one was twice as old as the younger one. Then the present age of the elder person is

(a) 23 years

(b) 31 years

(c) 34 years

(d) 40 years

Ans. (b)

Ques. The age of a father 10 years ago was thrice the age of his son. Ten years hence, the father's age will be twice that of his son. The ratio of their present ages is:

(a) 7 : 3

(b) 7 : 8

(c) 5 : 3

(d) 6 : 8

Ans. (a)

Ques. Two years ago, Vibuthi was four times as old as Inder. 8 years hence, Vibuthi's age will exceed Inder's age by 12 years. The ratio of the present ages of Vibuthi and Inder

(a) 5 : 1

(b) 4 : 1

(c) 3 : 1

(d) 2 : 1

Ans. (c)

Ques. A father is 4 times as old as his son; in 20 years he will be only twice as old as his son. Then the respective ages of father and son are

(a) 40, 10 years

(b) 80, 20 years

(c) 60, 15 years

(d) 48, 12 years

Ans. (a)

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Ques. One year ago, the ratio of Gisele's and Sara's age was 6: 7 respectively. Four years hence, this ratio would become 7: 8. How old is Sara?

(a) 26 years

(b) 28 years

(c) 32 years

(d) 36 years

Ans. (d)

Ques. A person was asked to state his age in years. His reply was, 'take my age three years hence, multiply it by 3 and then subtract three times my age three years ago and you will know how old I am'. What was the age of the person?

(a) 18 years

(b) 20 years

(c) 24 years

(d) 32 years

Ans. (a)

Ques. The ratio of the father's age to the son's age is 4:1. The product of their ages is 196. The ratio of their ages after 5 years will be:

(a) 3 : 1

(b) 10 : 3

(c) 11 : 4

(d) 14 : 5

Ans. (c)

Ques. Ashish's mother was four times as old as Ashish ten years ago. After 10 years she will be twice as old as Ashish. Then, Ashish 's present age is

(a) 30 years

(b) 25 years

(c) 20 years

(d) 15 years

Ans. (c)

Ques. Ratio of Shivam's age to Pradeep's age is equal to 4:3. Shivam will be 26 years old after 6 years. How old is Pradeep now?

(a) 15 years

(b) 16 years

(c) 14 years

(d) 17 years

Ans. (a)

Ques. The ratio of ages of Rubina and Vanika is 3:5. The difference in their ages is 12 years. Then the age of Vanika is

(a) 20 years

(b) 15 years

(c) 18 years

(d) 30 years

Ans. (d)

Ques. Robert was 4 times as old as his son 8 years ago. After 8 years, Rohit will be twice as old as his son. What is Robert's present age?

(a) 40

(b) 38

(c) 36

(d) 34

Ans. (a)

Ques. The ages of Andrea and Beth are in the ratio 3:5. After 9 years the ratio of their ages will be 3:4. The present age of Beth is

(a) 9 years

(b) 15 years

(c) 20 years

(d) 16 years

Ans. (b)

Ques. The ratio of ages of Maddy and Saddy is 4:3. The sum of their ages is 42 years. The age of Maddy is

(a) 24 years

(b) 18 years

(c) 32 years

(d) 30 years

Ans. (a)

Ques. The ages of Rachel and Megan differs by 16 years. Six years ago, Megan's age was thrice as that of Rachel's. Then Rachel's present age is

(a) 15 years

(b) 20 years

(c) 14 years

(d) 30 years

Ans. (c)

Ques. The ratio of the ages of father and son at present is 6:1. After 5 years the ratio will become 7:2. The present age of the son is:

(a) 5 years

(b) 6 years

(c) 7 years

(d) 8 years

Ans. (a)

Ques. The present age of a father is 3 years more than three times the age of his son. Three years hence, father's age will be 10 years

more than twice the age of the son. Find the present age of the father.

(a) 32 years

(b) 33 years

(c) 34 years

(d) 35 years

Ans. (b)

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Ques. Varun Grover is as much younger than Hansraj as he is older than Anurag Kashyap. If the sum of Hansraj's and Anurag Kashyap's ages is 40 years, find the age of Varun Grover.

(a) 40 years

(b) 10 years

(c) 25 years

(d) 20 years

Ans. (d)

Ques. Adityanath is twice as old as Mayawati was two years ago. If the difference in their ages be 2 years, find Adityanath's age:

(a) 8 years

(b) 9 years

(c) 10 years

(d) 11 years

Ans. (a)

Ques. The ratio between the ages of Ram and Mohan is 4:5 and that between Mohan and Anil is 5:6. If sum of the ages of three be 90 years, how old is Mohan?

(a) 24 years

(b) 20 years

(c) 30 years

(d) 25 years

Ans. (c)

Ques. Father's age is three years more than three times the son's age. After three years, father's age will be ten years more than twice the son's age. What is the father's present age?

(a) 33 years

(b) 34 years

(c) 35 years

(d) 36 years

Ans. (a)

Ques. A father is twice as old as his son. 20 years ago, the age of the father was 12 times the age of the son. The present age of the son is

(a) 44 years

(b) 22 years

(c) 40 years

(d) 20 years

Ans. (b)

Ques. A father's age is three times the sum of the ages of his two children, but 20 years hence his age will be equal to sum of their ages. Then the fathers age is –

(a) 30 years

(b) 40 years

(c) 35 years

(d) 45 years

Ans. (a)

Ques. Andrew's age after six years will be three-seventh of his fathers age. Ten years ago the ratio of their ages was 1 : 5. What is Andrew's father's age at present?

(a) 50 years

(b) 60 years

(c) 55 years

(d) 65 years

Ans. (a)

Ques. The ages of two persons differ by 16 years. If 6 years ago, the elder one be 3 times as old as the younger one, find their present ages.

(a) 15, 29

(b) 14, 30

(c) 13, 31

(d) 16, 32

Ans. (b)

Ques. Elon's age after 15 years will be 5 times his age 5 years back. What is the present age of Elon ?

(a) 10 years

(b) 9 years

(c) 8 years

(d) 7 years

Ans. (a)

Ques. The number of times the digit 3 will be written when listing the integers from 1 to 1000 is

(a) 269

(b) 300

(c) 271

(d) 302

Ans. (b)

Ques. The sides AB, BC, CA of a triangle ABC have respectively 3, 4 and 5 points lying on them. The number of triangles that can be constructed using these points as vertices is

(a) 205

(b) 220

(c) 210

(d) 240

Ans. (a)

Ques. 12 persons are to be arranged to a round table. If two particular persons among them are not to be side by side, the total number of arrangements is

(a) 9 (10 !)

(b) 2(10 !)

(c) 45(8 !)

(d) 10 !

Ans. (a)

Ques. Preeti, Shweta, Reena and Salma have to give lectures to an audience. The organiser can arrange the order of their presentation in

(a) 4 ways

(b) 12 ways

(c) 256 ways

(d) 24 ways

Ans. (d)

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Ques. Five balls of different colours are to be placed in three boxes of different sizes. Each box can hold all five balls. In how many ways can we place the balls so that no box remains empty

(a) 50

(b) 100

(c) 150

(d) 200

Ans. (c)

Ques. Poonam gives a dinner party for six guests. The number of ways in which they may be selected from among ten friends, if two of the friends will not attend the party together is

(a) 112

(b) 140

(c) 164

(d) 624

Ans. (b)

Ques. A car will hold 2 in the front seat and 1 in the rear seat. If among 6 persons 2 can drive, then the number of ways in which the car can be filled is

(a) 10

(b) 20

(c) 30

(d) None of these

Ans. (b)

Ques. How many numbers can be made with the help of the digits 0, 1, 2, 3, 4, 5 which are greater than 3000 (repetition is not allowed)?

(a) 180

(b) 360

(c) 1380

(d) 1500

Ans. (c)

Ques. The number of times the digit 5 will be written when listing the integers from 1 to 1000 is

(a) 271

(b) 272

(c) 300

(d) None of these

Ans. (c)

Ques. How many words can be made from the letters of the word INSURANCE, if all vowels come together?

(a) 18270

(b) 17280

(c) 12780

(d) None of these

Ans. (d)

Ques. In how many ways can 16 be divided into 4 person when none of them get less than 3

(a) 70

(b) 35

(c) 64

(d) 192

Ans. (b)

Ques. $n - 1C3 + n - 1C4 > nC3$, then the value of n is

(a) 7

(b) < 7

(c) > 7

(d) None of these

Ans. (c)

Ques. A person is permitted to select at least one and at most n coins from a collection of (2n + 1) distinct coins. If the total number of ways in which he can select coins is 255, then n equals

(a) 4

(b) 8

(c) 16

(d) 32

Ans. (a)

Ques. We are to form different words with the letters of the word INTEGER. Let m1 be the number of words in which I and N are never together and m2 be the number of words which begin with I and end with R, then m1 / m2 is equal to

(a) 30

(b) 60

(c) 90

(d) 180

Ans. (a)

Ques. Six '+' and four '−' signs are to placed in a straight line so that no two '−' signs come together, then the total number of ways are

(a) 15

(b) 18

(c) 35

(d) 42

Ans. (c)

Ques. If nP5 = 9 x n – 1P4, then the value of n is

(a) 6

(b) 8

(c) 5

(d) 9

Ans. (d)

Ques. In a football championship, there were played 153 matches. Every team played one match with each other. The number of teams participating in the championship is

(a) 17

(b) 18

(c) 9

(d) 13

Ans. (b)

Ques. The number of ways in which first, second and third prizes can be given to 5 competitors is

(a) 10

(b) 60

(c) 15

(d) 125

Ans. (b)

Ques. In how many ways 3 letters can be posted in 4 letter-boxes, if all the letters are not posted in the same letter-box

(a) 63

(b) 60

(c) 77

(d) 81

Ans. (b)

Ques. How many numbers consisting of 5 digits can be formed in which the digits 3, 4 and 7 are used only once and the digit 5 is used twice?

(a) 30

(b) 60

(c) 45

(d) 90

Ans. (b)

Ques. In how many ways can 10 true-false questions be replied

(a) 20

(b) 100

(c) 512

(d) 1024

Ans. (d)

Ques. The number of 7 digit numbers which can be formed using the digits 1, 2, 3, 2, 3, 3, 4 is

(a) 420

(b) 840

(c) 2520

(d) 5040

Ans. (a)

Ques. In how many ways can 15 members of a council sit along a circular table, when the Secretary is to sit on one side of the Chairman and the Deputy Secretary on the other side

(a) 2 x 12!

(b) 24

(c) 2 x 15!

(d) None of these

Ans. (a)

Ques. How many numbers lying between 999 and 10000 can be formed with the help of the digit 0,2,3,6,7,8 when the digits are not to be repeated?

(a) 100

(b) 200

(c) 300

(d) 400

Ans. (c)

Ques. Ten different letters of an alphabet are given. Words with five letters are formed from these given letters. Then the number of words which have at least one letter repeated is

(a) 69760

(b) 30240

(c) 99748

(d) None of these

Ans. (a)

Ques. Number of divisors of n = 38808 (except 1 and n) is

(a) 70

(b) 68

(c) 72

(d) 74

Ans. (a)

Ques. How many different nine-digit numbers can be formed from the digits of the number 223355888 by rearrangement of the digits so that the odd digits occupy even places?

(a) 16

(b) 36

(c) 60

(d) 180

Ans. (c)

Ques. The greatest possible number of points of intersection of 8 straight lines and 4 circles is

(a) 32

(b) 64

(c) 76

(d) 104

Ans. (d)

Ques. The exponent of 3 in 100 ! is

(a) 33

(b) 44

(c) 48

(d) 52

Ans. (c)

Ques. The number of parallelograms that can be formed from a set of four parallel lines intersecting another set of three parallel lines is

(a) 6

(b) 18

(c) 12

(d) 9

Ans. (b)

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Ques. The number of ways in which an arrangement of 4 letters of the word 'PROPORTION' can be made is

(a) 700

(b) 750

(c) 758

(d) 800

Ans. (c)

Ques. The number of ways in which a committee of 6 members can be formed from 8 gentlemen and 4 ladies so that the committee contains at least 3 ladies is

(a) 252

(b) 672

(c) 444

(d) 420

Ans. (a)

Ques. In how many ways can a committee be formed of 5 members from 6 men and 4 women if the committee has at least one woman

(a) 186

(b) 246

(c) 252

(d) None of these

Ans. (b)

Ques. Out of 6 boys and 4 girls, a group of 7 is to be formed. In how many ways can this be done if the group is to have a majority of boys

(a) 120

(b) 90

(c) 100

(d) 80

Ans. (c)

Ques. The number of positive integral solutions of a b c = 30 is

(a) 30

(b) 27

(c) 8

(d) None of these

Ans. (b)

Ques. If the letters of the word SACHIN arranged in all possible ways and these words are written out as in dictionary, then the word SACHIN appears at serial number

(a) 603

(b) 602

(c) 601

(d) 600

Ans. (c)

Ques. The number of ways in which 5 male and 2 female members of a committee can be seated around a round table so that the two female are not seated together is

(a) 480

(b) 600

(c) 720

(d) 840

Ans. (a)

Ques. How many words can be made from the letters of the word DELHI, if L comes in the middle in every word?

(a) 12

(b) 24

(c) 60

(d) 6

Ans. (b)

Ques. If a man and his wife enter in a bus, in which five seats are vacant, then the number of different ways in which they can be seated is

(a) 2

(b) 5

(c) 20

(d) 40

Ans. (c)

Ques. The sum of the digits in the unit place of all numbers formed with the help of 3, 4, 5, 6 taken all at a time is

(a) 18

(b) 432

(c) 108

(d) 144

Ans. (c)

Ques. In an examination there are three multiple choice questions and each question has 4 choices. Number of ways in which a student can fail to get all answers correct, is

(a) 11

(b) 12

(c) 27

(d) 63

Ans. (d)

Ques. The numbers of arrangements of the letters of the word SALOON, if the two O's do not come together, is

(a) 360

(b) 720

(c) 240

(d) 120

Ans. (c)

Ques. Out of 10 white, 9 black and 7 red balls, the number of ways in which selection of one or more balls can be made, is

(a) 881

(b) 891

(c) 879

(d) 892

Ans. (c)

Ques. A question paper is divided into two parts A and B and each part contains 5 questions. The number of ways in which a candidate can answer 6 questions selecting at least two questions from each part is

(a) 80

(b) 100

(c) 200

(d) None of these

Ans. (c)

Ques. In an election there are 5 candidates and three vacancies. A voter can vote maximum to three candidates, then in how many ways can he vote

(a) 125

(b) 60

(c) 10

(d) 25

Ans. (d)

Ques. There are four balls of different colours and four boxes of colours same as those of the balls. The number of ways in which the balls, one in each box, could be placed such that a ball does not go to box of its own colour is

(a) 8

(b) 7

(c) 9

(d) None of these

Ans. (c)

Ques. The number of ways in which the letters of the word TRIANGLE can be arranged such that two vowels do not occur together is

(a) 1200

(b) 2400

(c) 14400

(d) None of these

Ans. (c)

Ques. The number of ways in which the letters of the word ARRANGE can be arranged such that both R do not come together is

(a) 360

(b) 900

(c) 1260

(d) 1620

Ans. (b)

Ques. A five digit number divisible by 3 has to formed using the numerals 0, 1, 2, 3, 4 and 5 without repetition. The total number of ways in which this can be done is

(a) 216

(b) 240

(c) 600

(d) 3125

Ans. (a)

Ques. There were two women participating in a chess tournament. Every participant played two games with the other participants. The number of games that the men played between themselves proved to exceed by 66 the number of games that the men played with the women. The number of participants is

(a) 6

(b) 11

(c) 13

(d) None of these

Ans. (c)

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