

AMCAT/MPHASIS/CTS/Wipro/CGI/DXC..

1. What is the value of $15_{C_{13}}$?

30

15

210

105

2.Q) Find a 2-digit smallest number which when divided by 1 , 2 and 3 leaves no remainder.

A. 14

B. 10

C. 16

D. 12

3. Q) An investment earns 4 paisa per rupee invested. If at the end of the year, the interest earned by an investment is Rs. 100. Then the investment is equal to:

A. Rs. 2,000

B. Rs. 2,200

C. Rs. 1,000

D. Rs. 2,500

E. Rs. 4,000

4Q) The average of 7 numbers is 50. The average of first three of them is 40, while the average of the last three is 60. What must be the remaining number?

- A. 65
- B. 55
- C. 50
- D. 45

Coins of 1, 2 and 5 rupees are tossed. What is the probability of getting head on the 1 rupee, tail on the 2 rupee and a head on the 5 rupee coins?

A. $1/2$

B. $1/4$

C. $1/8$

D. $1/16$

In a game show there are 5 prize cards and 20 blank cards. A contestant is asked to choose a card at random. What is the probability that he won a prize?

A. $3/5$

B. $2/5$

C. $1/5$

D. $4/5$

Which of the following numbers is the smallest number?

A. $1/12$

B. $1/6$

C. $1/4$

D. $1/3$

In how many ways can the letters of the word 'CONSTANT' be arranged such that the word always starts with a vowel?

A. 5, 050

B. 1, 440

C. 2, 520

D. 10, 080

A group of women can finish a piece of work in 50 days. In how many days will one-third the number of women be able to finish two-third of the work?

- A. 150days
- B. 75 days
- C. 50 days
- D. 100 days

Sara has 400 marbles. If she gives $(1/5)$ th of her marbles to Sam and Sam gives $(3/4)$ th of his marbles to David, then how many marbles does Sam have left?

- A. 80
- B. 20
- C. 60
- D. 200

Two students 'P' and 'Q' appear for an examination. 'P' scores 40% of the total marks and fails by 30 marks. However, 'Q' scores 60% of the total marks and scores 20 marks more than the passing marks. What is the passing mark?

- A. 70
- B. 130
- C. 170
- D. 100

A retailer sells two items at a price of 100 each. He sells one item at a loss of 20% and the other item at a profit of 20%. Find the net profit/loss percentage of the retailer.

- A. 0%
- B. 37.5%
- C. 52%
- D. 4%

The number $98181*6$ is completely divisible by 9. Smallest whole digit number in place of $*$ can be:

A. 0

B. 1

C. 2

D. 3

The printed price on a book is Rs. 400, a bookseller offers a 10% discount on it. If he still earns a profit of 12%, then the cost price of the book is:

- A. Rs. 280
- B. Rs. 352
- C. Rs. 360
- D. Rs. 300

What is the value of $(5^{-2} \times 10^{-4}) / (2^{-5} \times 5^{-6})$

0

2

5

10

The rate at which two employees of a company – Anu and karan convert cold calls to sales is 60 call/day. Anu converts 40 calls more than Karan in a day. How many calls do the two employees convert individually?

- A. Anu: 40 calls/day, Karan: 20 calls/day
- B. Anu: 55 calls/day, Karan: 5 calls/day
- C. Anu: 50 calls/day, Karan: 10 calls/day
- D. Anu: 35 calls/day, Karan: 25 calls/day

A total profit of Rs. 36,000 is to be distributed among Rajesh, Salesh and Rajeev such that Rajesh : Salesh :: 5 : 4 and Salesh:Rajeev : 8 : 9. What is the share of Rajeev?

Rs. 12,000

Rs. 24,000

Rs. 10,000

Rs. 20,000

The probability of occurrence of an event is $9/10$. What is the probability that an event occur at least 4 times out of 5?

$$(14 \times 9^5)/10^4$$

$$(14 \times 9^4)/10^5$$

$$(14 \times 9^5)/9^4$$

$$(14 \times 9^5)/10^5$$

What is the value of $(a^3)^5 / (a^2)^4$

7a

a^7

a^{-7}

None of the above

An article is sold at a discount of 20% and still there is a gain of 10%. Find the marked price of the article if its cost price is ₹400.

₹530

₹420

₹450

₹550

Write $528/7$ as a mixed fraction.

$$75\frac{2}{7}$$

$$75\frac{3}{7}$$

$$74\frac{3}{7}$$

$$70\frac{2}{7}$$

47, 322 bulbs are to be packed in several boxes. Each box should contain equal numbers of bulbs and no bulb should be left unpacked. Number of boxes used can be:

12

11

8

14

If a sum of money becomes 4 times of itself in 20 years, what is the rate of interest?

15%

8%

5%

20%

Which number should be subtracted from 876905 so that it can be divisible by 8?

1

2

3

4

In a scheme, a pack of three soaps with MRP Rs. 45 is available for Rs. 42. If it still gives a profit of 5% to shopkeeper, then the cost price of the pack is:

Rs. 40

Rs. 37

Rs. 41

Rs. 35

Find the value of X if $8^{2x} \div 8^{-5} = 8^7$

1

0

-1

None of the above

If I have kept six different books on a shelf, in how many different ways can I arrange them?

6

24

120

720

A publishing company compares the sales value of their two best-selling books P and Q. If the sum of the sales value of both the books is ₹30,000 and the sales value of book P is 30% more than that of book Q, what is the sales value of book Q?

₹13,043

₹10,506

₹23,076

₹6,000

The difference in the simple interest and compound interest on a principal of Rs. 10,00,000 in 3 years at 4% per annum is:

Rs . 4,000

Rs. 5,000

Rs. 4,864

Rs. 4,500

If $abc4d$ is divisible by 4, what cannot be the value of d ?

0

4

8

2

If a coin with both heads is tossed, then the probability of obtaining a tail is:

0

$1/2$

$1/3$

1

If ${}^n C_5 = {}^n C_{12}$, find n .

17

15

12

19

Which o the following numbers is the smallest number?

$$1/12$$

$$1/6$$

$$1/4$$

$$1/3$$

If a similar item is sold to two different customers X and Y such that there is a profit of 14% from customer X but a loss of 14% from customer Y, what will be the total loss/profit percent of the seller?

2.54% profit

1.96% loss

1.96% profit

No profit, no loss

A money lender lent out a sum of ₹5,000 at simple interest. At the end of 4 years, the total amount received by him was ₹6,000. Find the rate of interest per annum.

15%

20%

5%

30%

A group of women can finish a piece of work in 50 days will one-third the number of women be able to finish two-third of the work?

150 days

75 days

50 days

100 days

Which of the following is greatest among the four given values of x?

$$X = \sqrt[4]{15}$$

$$X = \sqrt[3]{25}$$

$$X = \sqrt[4]{125}$$

$$X = \sqrt[12]{625}$$

Q) A bag contains coins of 1 rupee, 2 rupees and 5 rupees in the ratio 4:8:5. The total amount in the bag is Rs. 90. The number of 5 rupee coins is:

8

16

15

10

Choose the correct option.

3 empty CDs and 2 pen drives cost Rs. 790. 2 empty CDs and 3 pen drives cost Rs. 1110. What is the cost of one pen drive?

Rs. 30

Rs. 350

Rs. 25

Rs. 300

A car engine is half filled and holds 15 liters of petrol. What fraction of the engine is full if it contains 18 liters of petrol?

$$1/4$$

$$2/3$$

$$2/5$$

$$3/5$$

What is the correct arrangement of the fractions $\frac{3}{7}$, $\frac{5}{12}$, $\frac{9}{20}$ and $\frac{26}{61}$ in descending order of their magnitude?

A. $\frac{3}{7} > \frac{9}{20} > \frac{5}{12} > \frac{26}{61}$

B. $\frac{5}{12} > \frac{3}{7} > \frac{9}{20} > \frac{26}{61}$

C. $\frac{26}{61} > \frac{9}{20} > \frac{5}{12} > \frac{3}{7}$

D. $\frac{9}{20} > \frac{3}{7} > \frac{26}{61} > \frac{5}{12}$

Sangeeta invested Rs. 20,000 at 8% per annum. If the interest is compounded half yearly, then total interest earned by Sangeeta at the end of the year is:

Rs. 1,632

Rs. 1,600

Rs. 1,800

Rs. 1,475

In how many ways Sangeeta, Artii, Pooja, Mona and Payal can stand in a queue?

120

5

20

150

A number is to be multiplied by the fraction $\frac{4}{5}$. But Samir, by mistake, multiplied it by $\frac{5}{4}$ and obtained the number 81 more than the correct one. What was the original number?

200

120

180

240

The average age of the state level cricket team of eleven is 22 years. The average age gets increased by 1 year when the coach age is also included. What is the age of the coach?

34

23

30

40

A group of 6 is to be made out of 8 girls and 6 boys. What is the probability that exactly 3 boys are selected?

$$({}^8C_3 * {}^6C_3) / {}^{14}C_6$$

$${}^8C_3 / {}^{14}C_6$$

$$3/4$$

$$1/4$$

Which of the following numbers is divisible by 3×4 ?

946

947

948

949

The number of ways in which the letters of the word 'RESULT' can be arranged without repetition is:

720

120

60

840

Q) If $6^{(x-3)} = 36^{(x-5)}$, then what is the value of X?

2

No value will agree

-1

7

Q) The printed price on a book is Rs. 400, a bookseller offers a 10% discount on it. If he still earns a profit of 12%, then the cost price of the book is:

Rs.280

Rs.352

Rs.360

Rs.321.42

Q) Which number should be added to 113257 so that it can be divisible by 9?

4

6

8

10

$\{ 0, 1, 2, 3, 4, \dots \}$

Integers

Whole numbers

Natural numbers

Positive integers

Q)A school has 963 students appearing for the tenth and twelfth board exams. Each section in school has the same number of students. The number of sections for tenth and twelfth classes can be?

9

6

12

7

Q) If $x = 8$ and $y = 27$, the value of $(x^{4/3} + y^{2/3})^{1/2}$ is:

5

6

7

8

None of the above

Q) Suvarna needs to browse through 75 pages of a novel before she gives her review to class. She has 2.5 hours before the lecture. What should be her reading speed in pages/hour?

16

30

20

22

A person buys a mobile phone for Rs 7,500 and sold it for Rs. 6,000. What is the loss percentage?

0.05

0.1

0.15

0.2

What will be the value of the expression $a^{8/3} * a^{-6/9}$?

a^{-2}

a^{-1}

a^0

a^1

a^2

Which of the following is divisible by 3, 7 and 11?

1,393

1,396

1,380

1,386

What is the value of $[(6! \times 4!) + (6! / 5!)]$?

17,274

17,286

17,280

17,292

What will be at the unit's place of
 $191 * 191 * 252 - 211 * 566 * 114$?

CTS: 207

A) 8

B) 6

C) 4

D) 2

Q) Which is the largest possible two digit number which divides 32472?

44

66

88

99

Q) What least value must be assigned to # , so that the number 279#4423 is divisible by 9?

1

5

3

7

Q) Shalom offered to sell his ancestral house for Rs. 18,400. If he had charged 10% less, he would have made a profit of 20% . What is the actual cost of the house?

Rs. 15,800

Rs. 14,500

Rs. 13,800

Rs. 12,500

Q) If the price of an article is reduced by 25%, by what percent should the new price be increased so as to make it equal to the original price?

25%

38.75%

20%

33.33%

Q) A man invested 10,500 in a scheme and received 19,320 at the end of four years. Calculate the rate of interest at which he invested his money.

A. 33%

B. 21%

C. 19%

D. 46%

Q) Pulse rate of a teenager is 12 beats in 10 sec. At this rate. Would his pulse rate be more than, equal to, or less than 100 beats minute?

Less than

Greater than

Equal to

Data insufficient

Q)The permutations and combinations of abcd taken 3 at a time are respectively:

12, 2

24, 4

36, 6

48, 8

Q) Which of the following numbers is divisible by 11?

1042

1045

1047

1048

Q) Solve : $\frac{4}{5} \times \frac{61}{80} \times \frac{10}{9}$

$\frac{61}{90}$

$\frac{90}{61}$

$\frac{60}{91}$

None of the above

Q) 4 men can repair a road in 7 hours. How many men are required to repair the road in 2 hours?

7

14

17

10

Q) In an examination, Arpit scored 10 marks more than Harsh. If Arpit's score was 60% of the sum of their marks, by what percent is Arpit's score more than Harsh's?

50%

25%

30%

10%

Q) A car is 250 meters behind the bus. The car and bus are moving with speed 60 km/hr and 35 km/hr respectively. The car will be ahead of bus by 250 meters in:

37 seconds

48 seconds

72 seconds

68 seconds

None of the above

Q. What is the difference between the numerator and the denominator, if 0.75 is written in its simplest fractional form?

1

2

3

4

Q) $2^8 \times 2^2 =$

4^{10}

2^{10}

2^{16}

4^{16}

Q) Which number is the fourth power of 7?

2,401

2,421

2,601

2,621

Q) Which of the following numbers is divisible by 6?

4322

3142

2256

1640

Q) In a debate competition, the probability of Asha speaking in favor of the topic is $\frac{1}{6}$ and the probability of Deeksha speaking against the topic is $\frac{1}{5}$. Find the probability of Asha and Deeksha not contradicting each other.

0.6

0.5

0.4

0.3

Choose the correct option.

Q) In designing a new keyboard, sample keyboards are prepared by rearranging the alphabet keys. What is the possible number of keyboards formed?

26!

${}_{26}P_1$

${}_{26}C_1$

26

Q) In an objective exam which has 2 answer options each for all the 20 questions, what is the probability that Sushant all the questions correctly?

$$20^{20}$$

$$1/2 * 20$$

$$(1/2)^{20}$$

$$2 * 20$$

Q) 40 people build a house in 18 days working 6 hours a day. In how many days will 30 people working 9 hours a day complete the same work?

4 days

44 days

36 days

16 days

Q) In how many ways can three leads be selected out of 5 males and 4 females if at least one female must be selected?

$9P_3$

$9C_3$

$${}^4C_2 \cdot {}^5C_1$$

$$74$$

$$70$$

Q) Body and Soul Gym Centre sells its brand new treadmill on an online bidding site at a profit of 20%. Had the centre sold the treadmill for Rs. 500 more, the profit would been 25%. How much did the treadmill cost the gym centre when they had bought it initially?

A.Rs. 5,000

B.Rs. 6,000

C.Rs. 10,000

D.Rs. 15,000

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