

CDS-AFCAT 1 2025

SSBCrack
EXAMS

LIVE

MATHS

NUMBER SYSTEM

CLASS 5



NAVJYOTI SIR



24 Oct 2024 Live Classes Schedule

| | | |
|--------|---------------------------------------|---------------|
| 8:00AM | 24 OCTOBER 2024 DAILY CURRENT AFFAIRS | RUBY MA'AM |
| 9:00AM | 24 OCTOBER 2024 DAILY DEFENCE UPDATES | DIVYANSHU SIR |

NDA 1 2025 LIVE CLASSES

| | | |
|---------|--|----------------|
| 11:30AM | GK - POLITY - JUDICIARY | RUBY MA'AM |
| 1:00PM | CHEMISTRY - PREPARATION & PROPERTIES | SHIVANGI MA'AM |
| 4:00PM | MATHS - ANALYTICAL GEOMETRY 2D - CLASS 4 | NAVJYOTI SIR |
| 5:30PM | ENGLISH - USE OF PHRASAL VERBS - CLASS 1 | ANURADHA MA'AM |

CDS 1 2025 LIVE CLASSES

| | | |
|---------|--|----------------|
| 11:30AM | GK - POLITY - JUDICIARY | RUBY MA'AM |
| 1:00PM | CHEMISTRY - PREPARATION & PROPERTIES | SHIVANGI MA'AM |
| 5:30PM | ENGLISH - USE OF PHRASAL VERBS - CLASS 1 | ANURADHA MA'AM |
| 7:00PM | MATHS - NUMBER SYSTEM - CLASS 5 | NAVJYOTI SIR |

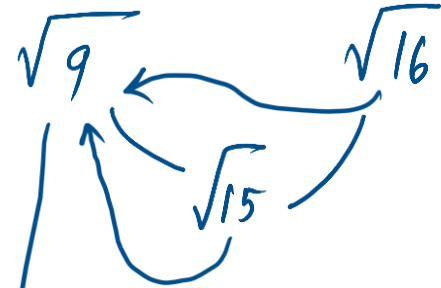
AFCAT 1 2025 LIVE CLASSES

| | | |
|--------|---------------------------------|---------------|
| 4:00PM | STATIC GK - HISTORY - CLASS 2 | DIVYANSHU SIR |
| 7:00PM | MATHS - NUMBER SYSTEM - CLASS 5 | NAVJYOTI SIR |



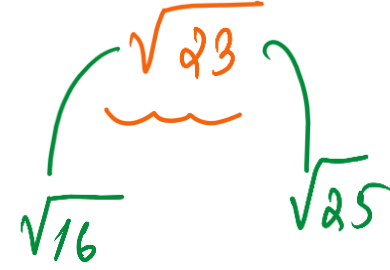
APPROXIMATE SQUARE ROOT VALUE

$$\sqrt{15}$$



$$3 + \left(\frac{\sqrt{15} - 3}{\sqrt{16} - 3} \right) \rightarrow \text{has to be a proper fraction (value less than 1)}$$

$$3 + \frac{6}{7} = \underline{\underline{3.85}} \text{ (approx.)}$$



$$4 + \frac{23 - 16}{25 - 16} = 4 + \frac{7}{9} = 4.77$$

fraction (value less than 1) (approx.)

$$\underline{\underline{(4.78)}}$$

BODMAS RULE

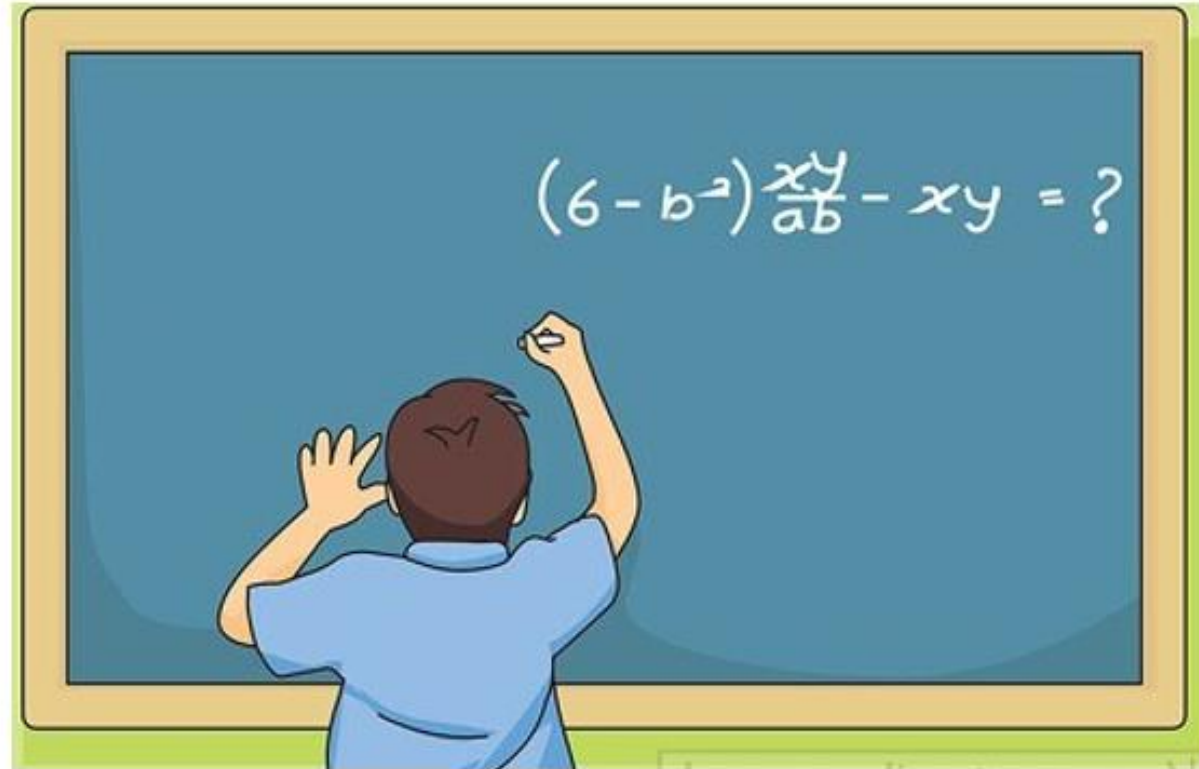
Brackets of Division Multiplication Addition Subtraction



[] , { } , ()

$$2 + \underbrace{5 \div 5} = \underbrace{3}$$

PRACTISE
TIME !



Q) What is the remainder after dividing the number 37^{1000} by 9?

- ✓ (a) 1 (b) 3
(c) 7 (d) 9

$$\frac{(9 \times 4 + 1)^{1000}}{9} = \frac{1^{1000}}{9} = \frac{1}{9} \rightarrow \textcircled{1}$$

Q) What is the remainder after dividing the number 37^{1000} by 9?

- (a) 1 (b) 3
(c) 7 (d) 9

Ans: (a)

Q) What is the remainder when $27^{27} - 15^{27}$ is divided by 6? ✓

(a) 0 ✓

(b) 1

(c) 3

(d) 4 ✓

$$\frac{a^n - b^n}{a - b} \rightarrow \frac{27^{27} - 15^{27}}{27 - 15} \Rightarrow \frac{27^{27} - 15^{27}}{12} \rightarrow \text{divisible}$$

if $n = \text{odd}$,
divisible by,
 $(a - b)$ and

not divisible by $(a + b)$

12 ↗ if divisible by 12, then
also divisible by factors
of 12.

Q) What is the remainder when $27^{27} - 15^{27}$ is divided by 6?

(a) 0

(b) 1

(c) 3

(d) 4

Ans: (a)

Q) What is the maximum value of m , if the number $N = \underline{90} \times \underline{42} \times \underline{324} \times 55$ is divisible by 3^m ?

(a) 8

(b) 7 ✓

(c) 6

(d) 5

$$90 \Rightarrow 3^2 \checkmark$$

$$2 + 1 + 4 = \textcircled{7}$$

$$\underline{42} \Rightarrow \underline{3^1}$$

$$\underline{324} \Rightarrow (\underline{3^2})^2 = \underline{3^4}$$

$$\underline{55} \Rightarrow \underline{3^0}$$

Q) What is the maximum value of m , if the number $N = 90 \times 42 \times 324 \times 55$ is divisible by 3^m ?

(a) 8

(b) 7

(c) 6

(d) 5

Ans: (b)

Q) The digit in the unit's place of the number represented by $(7^{95} - 3^{58})$ is:

(a) 0

(b) 4 ✓

(c) 6

(d) 7

$$3 - 9 = -6$$

$$-6 + 10 = \textcircled{4}$$

unit digit = -ve
+ve \longrightarrow 10 + (-ve)

Q) The digit in the unit's place of the number represented by $(7^{95} - 3^{58})$ is:

(a) 0

(b) 4

(c) 6

(d) 7

Ans: (b)

Q) If $x959y$ is divisible by 44 and $y > 5$, then what are values of the digit x and y ?

- (a) $x=7, y=6$ (b) $x=4, y=8$
 (c) $x=6, y=7$ (d) None of these

$$44 \rightarrow 11 \times 4$$

✓
✓

(a) $\overbrace{79596}^{\text{Divisible by 11}}$

$4 \text{ — } \checkmark$
 $11 \text{ — } 18 \text{ — } \checkmark$
 $\quad \quad \quad \begin{array}{r} -18 \\ \hline 0 \end{array}$

} $44 \text{ — } \checkmark$

Q) If $x959y$ is divisible by 44 and $y > 5$, then what are values of the digit x and y ?

(a) $x = 7, y = 6$

(b) $x = 4, y = 8$

(c) $x = 6, y = 7$

(d) None of these

Ans: (a)

Q) The number of prime factors in the expression

$(6)^{10} \times (7)^{17} \times (11)^{27}$ is:

- (a) 54 (b) 64 (c) 71 (d) 81



$$2^{10} \times 3^{10} \times 7^{17} \times 11^{27}$$

$$\begin{aligned} \text{no. of prime factors} &= 10 + 10 + 17 + 27 \\ &= \underline{64} \end{aligned}$$

Q) The number of prime factors in the expression

$(6)^{10} \times (7)^{17} \times (11)^{27}$ is:

- (a) 54 (b) 64 (c) 71 (d) 81

Ans: (b)

Q) The seven digit number $876p37q$ is divisible by 225. The values of p and q can be respectively

(a) 9, 0 ✗

(b) 0, 0 ✗

(c) 0, 5 ✓

(d) 9, 5 ✓

$$225 \rightarrow 25 \times 9$$

$$q = 5$$

25 \rightarrow unit place will be 5.

(c) and (d) both,

Q) The seven digit number $876p37q$ is divisible by 225. The values of p and q can be respectively

(a) 9, 0

(b) 0, 0

(c) 0, 5

(d) 9, 5

Ans: (d)

Q) If the sum of two numbers is 55 and the H.C.F. and L.C.M. of these numbers are 5 and 120 respectively, then the sum of the reciprocals of the numbers is equal to:

- (a) $\frac{55}{601}$ (b) $\frac{601}{55}$ (c) $\frac{11}{120}$ (d) $\frac{120}{11}$

$$\underline{a + b = 55}$$

$$\underline{ab = \text{LCM} \times \text{HCF}}$$

$$= 120 \times 5 = \underline{600}$$

$$\frac{1}{a} + \frac{1}{b} = \frac{a+b}{ab} = \frac{55}{600}$$

$$= \frac{11}{120}$$

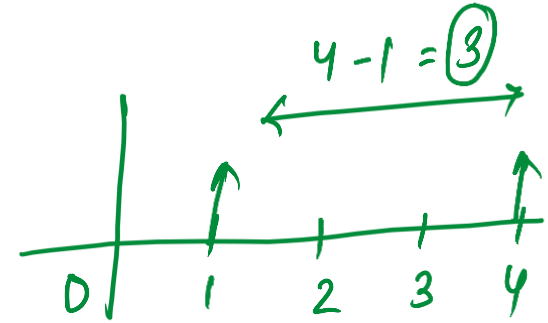
Q) If the sum of two numbers is 55 and the H.C.F. and L.C.M. of these numbers are 5 and 120 respectively, then the sum of the reciprocals of the numbers is equal to:

- (a) $\frac{55}{601}$ (b) $\frac{601}{55}$ (c) $\frac{11}{120}$ (d) $\frac{120}{11}$

Ans: (c)

Q) If the points P and Q represent real numbers $0.7\bar{3}$ and $0.5\bar{6}$ on the number line, then what is the distance between P and Q ?

- (a) $\frac{1}{6}$ (b) $\frac{1}{5}$ (c) $\frac{16}{45}$ (d) $\frac{11}{90}$



$$0.7\bar{3} = \frac{73 - 7}{90} = \frac{66}{90}$$

$$0.5\bar{6} = \frac{56 - 5}{90} = \frac{51}{90}$$

distance = diff.

$$\text{diff.} = \frac{66 - 51}{90}$$

$$= \frac{15}{90} = \frac{1}{6}$$

Q) If the points P and Q represent real numbers $0.7\bar{3}$ and $0.5\bar{6}$ on the number line, then what is the distance between P and Q ?

- (a) $\frac{1}{6}$ (b) $\frac{1}{5}$ (c) $\frac{16}{45}$ (d) $\frac{11}{90}$

Ans: (a)

Q) Minimum difference between x and y such that $1x71y61$ is exactly divisible by 11 is

- (a) 2 (b) 3 (c) 1 (d) 0

$$1x71y61$$

$$(y + 9) - (x + 7)$$

$$\underline{y - x + 2} = 0 \quad | \quad y - x + 2 = 11$$

$$\text{diff.} \rightarrow \underline{2} \quad (\text{+ve})$$

$$\text{diff.} = 9$$

$$\text{min.} = \underline{2}$$

Q) Minimum difference between x and y such that $1x71y61$ is exactly divisible by 11 is

- (a) 2 (b) 3 (c) 1 (d) 0

Ans: (a)

Q) The value of

$$\left(\frac{1}{\sqrt{7}-\sqrt{6}}\right) - \left(\frac{1}{\sqrt{6}-\sqrt{5}}\right) + \left(\frac{1}{\sqrt{5}-2}\right) - \left(\frac{1}{\sqrt{8}-\sqrt{7}}\right) + \left(\frac{1}{3-\sqrt{8}}\right) \text{ is}$$

(a) 0 (b) 1 (c) 5 (d) 7

$$\frac{\sqrt{7}+\sqrt{6}}{\sqrt{7}+\sqrt{6}} - \frac{(\sqrt{6}+\sqrt{5})}{(\sqrt{6}+\sqrt{5})} + \frac{(\sqrt{5}+2)}{(\sqrt{5}+2)} - \frac{(\sqrt{8}+\sqrt{7})}{(\sqrt{8}+\sqrt{7})} + \frac{(3+\sqrt{8})}{(3+\sqrt{8})}$$

$$= 2 + 3 = 5$$

$$\frac{1}{\sqrt{8}-\sqrt{7}} \times \frac{\sqrt{8}+\sqrt{7}}{\sqrt{8}+\sqrt{7}}$$

$$= \frac{\sqrt{8}+\sqrt{7}}{8-7} = \sqrt{8}+\sqrt{7}$$

Q) The value of

$$\frac{1}{\sqrt{7} - \sqrt{6}} - \frac{1}{\sqrt{6} - \sqrt{5}} + \frac{1}{\sqrt{5} - 2} - \frac{1}{\sqrt{8} - \sqrt{7}} + \frac{1}{3 - \sqrt{8}} \text{ is}$$

(a) 0 (b) 1 (c) 5 (d) 7

Ans: (c)

Q) What is the unit digit in the expansion of 67^{32} ?

(a) 1

(b) 3

(c) 7

(d) 9



Q) What is the unit digit in the expansion of 67^{32} ?

(a) 1

(b) 3

(c) 7

(d) 9

Ans: (a)

Q) Three men start together to travel the same way around a circular track of 11 kms. Their speeds are 4, $5\frac{1}{2}$, and 8 kms per hour respectively. When will they meet at the starting point?

- (a) 22 hrs ✓ (b) 12 hrs
(c) 11 hrs (d) 44 hrs

LCM of $\frac{11}{4}$, $\frac{2}{1}$ and $\frac{11}{8}$,

$$\frac{\text{LCM}(11, 2, 11)}{\text{HCF}(4, 1, 8)} = \frac{22}{1}$$

Time taken

$$\frac{11}{4}, \frac{11}{\left(\frac{11}{2}\right)}, \frac{11}{8} \Rightarrow \left(\frac{11}{4}, \frac{2}{1}, \frac{11}{8}\right)$$

$$= \underline{\underline{22 \text{ hrs}}}$$

Q) Three men start together to travel the same way around a circular track of 11 kms. Their speeds are 4, $5\frac{1}{2}$, and 8 kms per hour respectively. When will they meet at the starting point?

- | | |
|------------|------------|
| (a) 22 hrs | (b) 12 hrs |
| (c) 11 hrs | (d) 44 hrs |

Ans: (a)

Q) One pendulum ticks 57 times in 58 seconds and another 608 times in 609 seconds. If they started simultaneously, find the time after which they will tick together.

(a) $\frac{211}{19}$ s

(b) $\frac{1217}{19}$ s

(c) $\frac{1218}{19}$ s

(d) $\frac{1018}{19}$ s

$$\begin{array}{r} \text{LCM} \\ \hline \text{LCM (58, 609)} \\ \hline \text{HCF (57, 68)} \end{array}$$

$$\frac{58}{57} \quad \frac{609}{68} \quad \left(\text{Time between ticks} \right)$$

Q) One pendulum ticks 57 times in 58 seconds and another 608 times in 609 seconds. If they started simultaneously, find the time after which they will tick together.

(a) $\frac{211}{19}$ s

(b) $\frac{1217}{19}$ s

(c) $\frac{1218}{19}$ s

(d) $\frac{1018}{19}$ s

Ans: (c)

Q) The sum of first 47 terms of the series

$$\frac{1}{4} + \frac{1}{5} - \frac{1}{6} - \frac{1}{4} - \frac{1}{5} + \frac{1}{6} + \frac{1}{4} + \frac{1}{5} - \frac{1}{6} \dots \text{ is}$$

(a) 0

(b) $-\frac{1}{6}$ ✓

(c) $\frac{1}{6}$

(d) $\frac{9}{20}$

sum of 42 terms = 0

$$\cancel{\frac{1}{4}} + \cancel{\frac{1}{5}} - \frac{1}{6} - \cancel{\frac{1}{4}} - \cancel{\frac{1}{5}} = -\frac{1}{6}$$

Q) The sum of first 47 terms of the series

$$\frac{1}{4} + \frac{1}{5} - \frac{1}{6} - \frac{1}{4} - \frac{1}{5} + \frac{1}{6} + \frac{1}{4} + \frac{1}{5} - \frac{1}{6} \dots \text{is}$$

- (a) 0 (b) $-\frac{1}{6}$
- (c) $\frac{1}{6}$ (d) $\frac{9}{20}$

Ans: (b)

Q) If 10^n divides $6^{23} \times 75^9 \times 105^2$, then what is the largest value of n ?

(a) 20

(b) 22

(c) 23

(d) 28

$$(2 \times 3)^{23} \times (5^2 \times 3)^9 \times (5 \times 3 \times 7)^2$$

$$10 \rightarrow 2 \times 5$$

$$2^{23} \times \underline{3^{23}} \times 5^{18} \times 3^9 \times 5^2 \times 3^2 \times \underline{7^2}$$

$$2^{23} \cdot \underbrace{3^{23} \times 5^{18} \times 3^9 \times 5^2 \times 3^2 \times 7^2}_{5^{20}} \rightarrow 2^{20} \times 5^{20} = \underline{10^{20}}$$

$$n = 20$$

= (no. of zeroes at the end)

Q) If 10^n divides $6^{23} \times 75^9 \times 105^2$, then what is the largest value of n ?

(a) 20

(b) 22

(c) 23

(d) 28

Ans: (a)

Q) What is the remainder when $(17^{23} + 23^{23} + 29^{23})$ is divided by 23 ?

- (a) 0 (b) 1
(c) 2 (d) 3

$$\frac{17^{23}}{23} + \left(\frac{23^{23}}{23}\right) + \frac{29^{23}}{23}$$

$$\frac{17^{23}}{23} + 0 + \frac{29^{23}}{23} \Rightarrow \frac{17^{23}}{23} + \frac{(23 \times 1 + 6)^{23}}{23}$$

$$\frac{17^{23}}{23} + \frac{6^{23}}{23}$$

$$\frac{17^{23} + 6^{23}}{23} = \frac{17^{23} + 6^{23}}{17 + 6}$$

= 0

$\left(\frac{a^n + b^n}{a + b}\right)$
(for $n = \text{odd} \rightarrow \text{divisible}$)

Q) What is the remainder when $(17^{23} + 23^{23} + 29^{23})$ is divided by 23 ?

(a) 0

(b) 1

(c) 2

(d) 3

Ans: (a)

Q) Consider the following statements:

- (I) There is a finite number of rational numbers between any two rational numbers. ✗
- (II) There is an infinite number of rational numbers between any two rational numbers. ✓
- (III) There is a finite number of irrational numbers between any two rational numbers.

Which of the above statements is/are correct?

- (a) Only I
- (b) Only II
- (c) Only III
- (d) Both I and II

finite → can be counted
→

Q) Consider the following statements:

- (I) There is a finite number of rational numbers between any two rational numbers.
- (II) There is an infinite number of rational numbers between any two rational numbers.
- (III) There is a finite number of irrational numbers between any two rational numbers.

Which of the above statements is/are correct?

- (a) Only I
- (b) Only II
- (c) Only III
- (d) Both I and II

Ans: (b)

Q) If $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{n(n+1)} = \frac{99}{100}$ then what is
 ✓ the value of n ?

(a) 98

(b) 99 ✓

(c) 100

(d) 101

$$\frac{1}{n} - \frac{1}{n+1}$$

$$\frac{1}{1} - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{4} + \dots - \left(\frac{1}{n} - \frac{1}{n+1} \right) = \frac{99}{100}$$

$$1 - \frac{1}{n+1} = \frac{99}{100}$$

Q) If $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{n(n+1)} = \frac{99}{100}$ then what is the value of n ?

- (a) 98 (b) 99 (c) 100 (d) 101

Ans: (b)

Q) The highest four-digit number which is divisible by each of the numbers 16, 36, 45, 48 is

(a) 9180

✓

(b) 9360

✓

(c) 9630

✗

(d) 9840

✗

16 →

36 → 9 × 4

45 → 5 × 9

48 → 16 × 3

Two factors have to be co-prime.

Q) The highest four-digit number which is divisible by each of the numbers 16, 36, 45, 48 is

- (a) 9180 (b) 9360 (c) 9630 (d) 9840

Ans: (b)

Q) What is the remainder when $(17^{29} + 19^{29})$ is divided by 18?
(a) 6 (b) 2 (c) 1 (d) 0

Q) What is the remainder when $(17^{29} + 19^{29})$ is divided by 18?
(a) 6 (b) 2 (c) 1 (d) 0

Ans: (d)

Q) The expression $5^{2n} - 2^{3n}$ has a factor

(a) 3

(b) 7

(c) 17

(d) None of the above

Q) The expression $5^{2n} - 2^{3n}$ has a factor

(a) 3

(b) 7

(c) 17

(d) None of the above

Ans: (c)

Q) Which one of the following is the largest divisor of $3^x + 3^{x+1} + 3^{x+2}$, if x is any natural number?

- (a) 3 (b) 13 (c) 39 (d) 117

Q) Which one of the following is the largest divisor of $3^x + 3^{x+1} + 3^{x+2}$, if x is any natural number?

- (a) 3 (b) 13 (c) 39 (d) 117

Ans: (c)

Q) Consider the following statements:

If p is a prime such that $p + 2$ is also a prime, then

I. $p(p + 2) + 1$ is a perfect square.

II. 12 is a divisor of $p + (p + 2)$, if $p > 3$.

Which of the above statements is/are correct ?

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Q) Consider the following statements:

If p is a prime such that $p + 2$ is also a prime, then

I. $p(p + 2) + 1$ is a perfect square.

II. 12 is a divisor of $p + (p + 2)$, if $p > 3$.

Which of the above statements is/are correct ?

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

Ans: (c)

Q) Which one of the following is correct?

The sum of two irrational numbers

- (a) is always a natural or irrational
- (b) may be rational or irrational
- (c) is always a rational number
- (d) is always an irrational number

Q) Which one of the following is correct?

The sum of two irrational numbers

- (a) is always a natural or irrational
- (b) may be rational or irrational
- (c) is always a rational number
- (d) is always an irrational number

Ans: (b)

- Q)** If we divide a positive integer by another positive integer, what is the resulting number?
- (a) It is always a natural number
 - (b) It is always an integer
 - (c) It is a rational number
 - (d) It is an irrational number

- Q)** If we divide a positive integer by another positive integer, what is the resulting number?
- (a) It is always a natural number
 - (b) It is always an integer
 - (c) It is a rational number
 - (d) It is an irrational number

Ans: (c)

Q) Consider the following statements in respect of three 3-digit numbers XYZ , YZX and ZXY :

1. The sum of the numbers is not divisible by $(X + Y + Z)$.
2. The sum of the numbers is divisible by 111.

Which of the above statements is/are correct?

- | | |
|------------------|---------------------|
| (a) 1 only | (b) 2 only |
| (c) Both 1 and 2 | (d) Neither 1 nor 2 |

Q) Consider the following statements in respect of three 3-digit numbers XYZ , YZX and ZXY :

1. The sum of the numbers is not divisible by $(X + Y + Z)$.
2. The sum of the numbers is divisible by 111.

Which of the above statements is/are correct?

- | | |
|------------------|---------------------|
| (a) 1 only | (b) 2 only |
| (c) Both 1 and 2 | (d) Neither 1 nor 2 |

Ans: (b)

Q) The least number that should be added to 2055 so that the sum is exactly divisible by 27 :

- (a) 24 (b) 27 (c) 31 (d) 28

Q) The least number that should be added to 2055 so that the sum is exactly divisible by 27 :

- (a) 24 (b) 27 (c) 31 (d) 28

Ans: (a)

Q) Let x be the least number, which when divided by 5, 6, 7 and 8 leaves a remainder 3 in each case but when divided by 9 leaves no remainder. The sum of digits of x is

- (a) 22 (b) 21 (c) 18 (d) 24

Q) Let x be the least number, which when divided by 5, 6, 7 and 8 leaves a remainder 3 in each case but when divided by 9 leaves no remainder. The sum of digits of x is

- (a) 22 (b) 21 (c) 18 (d) 24

Ans: (c)

Q) I have a certain number of beads which lie between 600 and 900. If 2 beads are taken away the remainder can be equally divided among 3, 4, 5, 6, 7 or 12 boys. The number of beads I have

- (a) 729 (b) 842 (c) 576 (d) 961

Q) I have a certain number of beads which lie between 600 and 900. If 2 beads are taken away the remainder can be equally divided among 3, 4, 5, 6, 7 or 12 boys. The number of beads I have

- (a) 729 (b) 842 (c) 576 (d) 961

Ans: (b)

Q) A hall is 13 metres 53 cm long and 8 metres 61 cm broad is to be paved with minimum number of square tiles. The number of tiles required is:

- (a) 123 (b) 77 (c) 99 (d) 57

Q) A hall is 13 metres 53 cm long and 8 metres 61 cm broad is to be paved with minimum number of square tiles. The number of tiles required is:

- (a) 123 (b) 77 (c) 99 (d) 57

Ans: (b)

Q) Three wheels can complete respectively 60,36,24 revolutions per minute. There is a red spot on each wheel that touches the ground at time zero. After how much time, all these spots will simultaneously touch the ground again?

- (a) $5/2$ seconds (b) $5/3$ seconds
(c) 5 seconds (d) 7.5 seconds

Q) Three wheels can complete respectively 60,36,24 revolutions per minute. There is a red spot on each wheel that touches the ground at time zero. After how much time, all these spots will simultaneously touch the ground again?

- (a) $5/2$ seconds (b) $5/3$ seconds
(c) 5 seconds (d) 7.5 seconds

Ans: (c)

- Q) Every prime number of the form $3k + 1$ can be represented in the form $6m + 1$ (where, k and m are integers), when
- (a) k is odd
 - (b) k is even
 - (c) k can be both odd and even
 - (d) No such form is possible

- Q) Every prime number of the form $3k + 1$ can be represented in the form $6m + 1$ (where, k and m are integers), when
- (a) k is odd
 - (b) k is even
 - (c) k can be both odd and even
 - (d) No such form is possible

Ans: (b)

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