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What is Aptitude?

It is your natural ability to learn or excel in a certain area.

For example, you could have an aptitude for math and logic.

Key to success

- 1. Problem Recognition
- 2. Speed
- 3. Practice



Link for **English Basics**

- https://www.learngrammar.net/practice
- https://www.myenglishpages.com/english/exercises.php
- https://www.englisch-hilfen.de/en/exercises list/alle grammar.htm
- https://www.grammarbank.com/
- https://www.really-learn-english.com/english-grammar-exercises.html
- https://www.really-learn-english.com/english-reading-comprehension-text-and-exercises.html
- https://www.thefreshreads.com/unseen-passage-for-class-10/
- https://www.englishgrammar.org/exercises/
- Practice Synonyms and Antonyms regularly.
- Read Idioms and Phrases.
- Book Word Power Made Easy by Norman Lewis
- Book English Grammar by Wren and Martin



Basic **MATHS**

- Tables at least from 1-30
- Squares from 1-30
- Cubes from 1-30
- Prime numbers from 1-100
- Divisibility rules for 1-20

- Methods for typical multiplications & divisions
- Methods for finding HCF & LCM
- Methods for finding squares & square roots

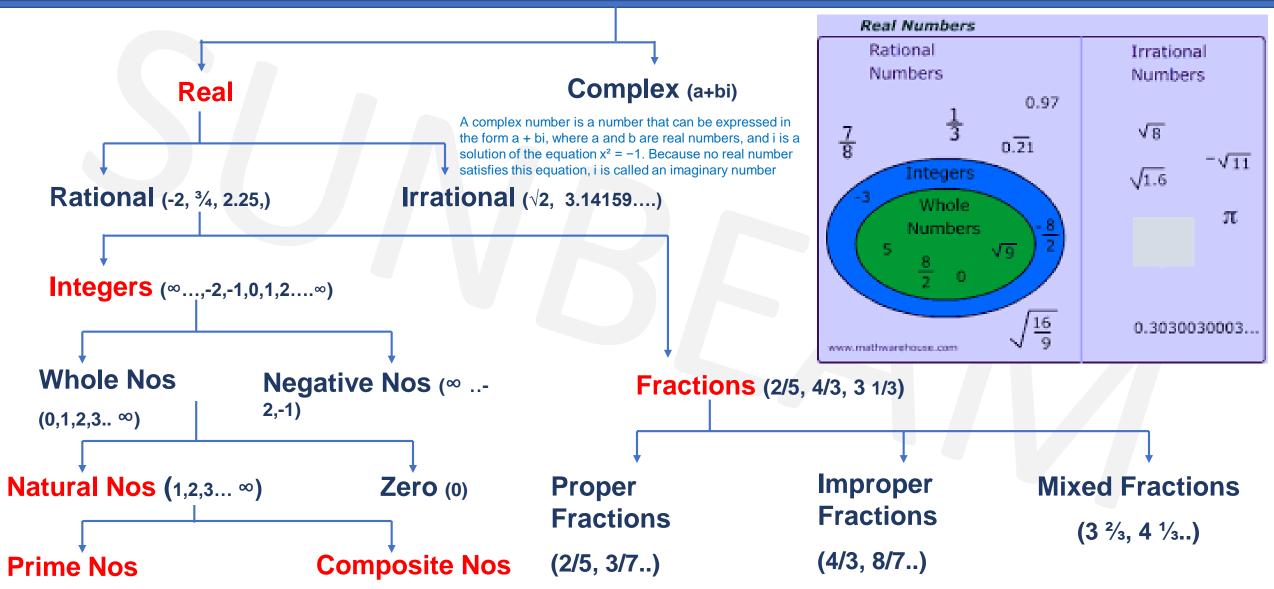


Topic Wise Test Plan

TEST NAME	TOPICS
APTI 1	Numbers + LCM + HCF + Ages + Averages
APTI 2	Percentages + Allegations & Mixtures + Profit & Loss
APTI 3	Time & Work + Pipes & Cisterns + Chain Rule
APTI 4	Time & Distance + Trains + Boats + Interest
APTI 5	Clock + Calendar + Probability + Permutation Combination



Numbers





What is the Difference Between Rational Numbers and Irrational Numbers?

Rational Numbers	Irrational Numbers			
Numbers that can be expressed as a ratio of two numbers (p/q form) are termed as a rational number.	Numbers that cannot be expressed as a ratio of two numbers are termed as an irrational number.			
Rational Number includes numbers, which are finite or are recurring in nature.	These consist of numbers, which are non-terminating and non-repeating in nature.			
If a number is terminating number or repeating decimal, then it is rational. e.g: $1/2 = 0.5$	If a number is non-terminating and non-repeating decimal, then it is irrational. e.g: 0.31545673			
Example:- 1/2, 3/4, 11/2, 0.45, 10, etc.	example:-Pi (π) = 3.14159, Euler's Number (e) = (2.71828), and $\sqrt{3}$, $\sqrt{2}$.			



Basic MATHEMATICAL operations

- BODMAS
- B Bracket (), {}, []
- O Order
- D Division
- M Multiplication
- A Addition
- S Subtraction.



BASIC FORMULAE

- 1. $(a + b)^2 = a^2 + b^2 + 2ab$
- 2. $(a b)^2 = a^2 + b^2 2ab$
- 3. $(a + b)^2 (a b)^2 = 4ab$
- 4.. $(a + b)^2 + (a b)^2 = 2 (a^2 + b^2)$
- 5. $(a^2 b^2) = (a + b) (a b)$
- 6. $(a + b + c)^2 = a^2 + b^2 + c^2 + 2$ (ab + bc + ca)
- 7. $(a^3 + b^3) = (a + b) (a^2 ab + b^2)$
- 8. $(a^3 b^3) = (a b) (a^2 + ab + b^2)$
- 9. $(a^3 + b^3 + c^3 3abc) = (a + b + c) (a^2 + b^2 + c^2 ab bc ca)$
- 10. If a + b + c = 0, then $a^3 + b^3 + c^3 = 3abc$



Sum of Natural Numbers

- Rule 1 : Sum of first n natural numbers = $\frac{n(n+1)}{2}$ e.g. sum of 1 to 74 = 74 x (74+1)/2 = 2775.
- Rule 2 : Sum of first n odd numbers = n²
- e.g. sum of first seven odd numbers
- $=(1+3+5+7+9+11+13)=49=7^{2}$.
- Rule 3: Sum of first n even numbers = n (n+1)
- e.g. sum of first 9 even numbers
 - =(2+4+6+8+10+12+14+16+18)=90
 - $= 9 (9+1) = 9 \times 10 = 90$



Sum of Natural Numbers

• Rule 4: Sum of squares of first n natural numbers = $\frac{n(n+1)(2n+1)}{6}$

e.g. sum of squares of first 8 natural numbers

$$= (1 + 4 + 9 + 16 + 25 + 36 + 49 + 64) = 204$$

$$= 8 (8+1)(16+1)/6 = 8 \times 9 \times 17/6 = 204$$

• Rule 5: Sum of cubes of first n natural numbers = [n(n+1)/2]²

e.g. sum of cubes of first 4 natural numbers

$$=(1+8+27+64)=100$$

$$= [4 (4+1)/2]^2 = 100$$



DIVISION

- DIVISION by ZERO is NOT POSSIBLE
- If two numbers are divisible by a number then their sum & difference is also divisible by the number.
- E.g. For 63 is divisible by 9. 27 is also divisible by 9.
- So 63 + 27 = 90 is also divisible by 9
- And 63 27 = 36 is also divisible by 9



- 2: Unit place is even or zero(last digit should be divisible by 2)
- 3: Sum of the digits is divisible by 3. e.g: 324
- 4: Last 2 digits are divisible by 4 or last 2 digits are 0. e.g: 324
- 5: Unit digit is 5 or 0
- 6: Divisible by co primes 2 & 3. e.g : 324
- 8: Number formed by last 3 digits is divisible by 8 or last 3 digits are 0.
 - e.g: 1088
- 9: Sum of all digits is divisible by 9. e.g: 324
- 10: Units digit is 0.



• 11: Difference between sum of digits in odd & even places should either be zero or divisible by 11

e.g: 8283

e.g:918071

- 12 : Divisible by co primes 3 & 4 e.g : 324
- 14: Divisible by co primes 2 & 7
- 15 : Divisible by co primes 3 & 5
- 16: No formed by last 4 digits divisible by 16/last 4 digits 0.
- 18: Divisible by co primes 2 & 9
- 20 : Units digit 0 & tens digit is even.



• 7: The difference between the two alternate groups taking 3 digits at a time should either be zero or multiple of 7.

$$006 + 550 = 556 - 500 = 56$$
 divisible by 7

eg- 7370356

• 13: The difference between the two alternate groups taking 3 digits at a time should either be zero or multiple of 13.

eg- 200174



- 17: A number is divisible by 17 if you multiply the last digit by 5 and subtract that from the rest. If that result is divisible by 17, then your number is divisible by 17.
- For example, for 986, then : $98 (6 \times 5) = 68$.
- Since, 68 is divisible by 17, then 986 is also divisible by 17.
- Also, 876 is not divisible by 17 because $87 (6 \times 5) = 57$ and 57 is not divisible by 17.

- 19: To determine if a number is divisible by 19, take the last digit and multiply it by 2. Then add that to the rest of the number. If the result is divisible by 19, then the number is divisible by 19.
- For example, 475 is divisible by 19 because $47 + (5 \times 2) = 57$, and 57 is divisible by 19.
- But , 575 is not divisible by 19 because $57 + (5 \times 2) = 67$, and 67 is not divisible by 19.



PROPERTIES OF DIVISIBILITY

To find a number completely divisible by another:

A) Greatest 'n' digit number exactly divisible by a Number :

Method: By subtracting the remainder

e.g a) Greatest 3 digit number divisible by 13

Greatest 3 digit number = 999. 999/13 gives remainder 11.

999-11 = 988 = Greatest 3 digit number divisible by 13

B) Least 'n' digit number exactly divisible by a Number :

Method: By adding the (divisor – remainder)

e.g b) Least 3 digit number divisible by 13

Least 3 digit number = 100. 100/13 gives remainder 9

100 + (13 - 9) = 104 = Least 3 digit number divisible by 13



PROPERTIES OF DIVISIBILITY

Q. On dividing a number by 999, the quotient is 366 and the remainder is 103. The number is:

A.364724

B.365387

C.365737

D.366757

E. None of these

Soln-

dividend = divisor x quotient + remainder

Required number = $999 \times 366 + 103$

 $= (1000 - 1) \times 366 + 103$

= 366000 - 366 + 103

= 365737

Ans: C



PROPERTIES OF DIVISIBILITY

Q. A number when divided by 5 leaves 3 as remainder. If the square of the same number is divided by 5, the remainder obtained is :

A. 9

B. 4

C. 1

D. 3

Soln:

number when divided by 5 leaves a remainder 3

Let the given number = 5n + 3 ---> using dividend = divisor quotient + remainder

Square of the number = $(5n + 3)^2$

$$= 25n^2 + 30n + 9 --> (a + b)^2 = a^2 + 2ab + b^2$$

$$= 5 \times 5n^2 + 5 \times 6n + 5 + 4$$

$$= 5 (5n^2 + 6n + 1) + 4$$

Required remainder = 4

Ans: B



Sum of Natural Numbers

Q. The difference between the sum of the first 2n natural numbers and the sum of the first n odd natural numbers is

A.
$$n^2 - n$$

B.
$$n^2 + n$$

C.
$$2n^2$$
 - n

D.
$$2n^2 + n$$

Ans: B

- Sum of first 2n natural numbers is $\frac{2n(2n+1)}{2}$
- Sum of first n odd numbers = n^2



Sum of Natural Numbers

- Rule 1 : Sum of first n natural numbers = $\frac{n(n+1)}{2}$ e.g. sum of 1 to 74 = 74 x (74+1)/2 = 2775.
- Rule 2 : Sum of first n odd numbers = n²
- e.g. sum of first seven odd numbers
- $=(1+3+5+7+9+11+13)=49=7^{2}$.



PRIME NUMBERS

- A number that is divisible only by itself and 1 (e.g. 2, 3, 5, 7, 11).
- There are 25 prime numbers between 1 100 25 prime nos. between 1 to 100
- 1 is neither prime nor composite number.
- · 2 is the only prime number which is even.
- A number having more than 2 factors is a composite number
- Find prime numbers between 101 and 200??
- There are 21 prime numbers between 101 200



Co-Prime

- When two numbers (they may not be prime) do not have any common factor other than one between them they are called co-prime or relatively prime.
- It is obvious that two prime numbers are always co-prime. e.g: 17 and 23

• Two composite numbers can also be co-prime. e.g: 16 & 25 do not have any common factor other than one.

• Similarly 84 and 65 do not have any common factor and hence are co-prime.



Prime Number

- Step 1: Check the units place of that number. If it ends with 0, 2, 4, 6 and 8, it is not a prime number.
- Note: "Numbers ending with 0, 2, 4, 6 and 8 are never prime numbers."
- Step 2: Take the sum of the digits of that number. If the sum is divisible by 3, the number is not a prime number.
- Note: "Numbers whose sum of digits are divisible by 3 are never prime numbers."
- Step 3: After confirming that steps 1 and 2 are false, find the square root of the given number.
- Step 4: Divide the given number by all the prime numbers below its square root value.
- Step 5: If the number is divisible by any of the prime numbers less than its square root, it is not a prime number; otherwise, it is prime.
- Exception: If a large number is ending with 5, then it is always divisible by 5. Hence, it is not a prime number



Prime Number

Q. Find whether 467 is prime or not

Step 1 : Sq root of 467→ Between 21 (441) and 22 (484)

Step 2: 467 is not divisible by 2, 3, 5, 7, 11, 13, 17, 19. Next prime is 23 which exceeds the square limit.

Therefore 467 is prime.



Prime Number

• Prime numbers 1-100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Q. Which of the following is a prime number?

A. 303

B. 477

C. 113

D. None of these

Ans : C

square root bet. 100 and 121 i.e. 10 and 11 so prime no. b



Q. The prime numbers dividing 143 and leaving a remainder of 3 in each case are

A. 2 and 11

B. 11 and 13

C. 3 and 7

D. 5 and 7

Ans: D

reverse solution by putting answer



Number System(Assignment)

Q. The mean of first 10 even natural numbers is?

A. 9

B. 10

C. 11

D. 12

Ans: C n(n+1)=



Q. The sum of first four primes is

A. 10

2,3,5,7,

B. 11

C. 16

D. 17

Ans: D



Q. Which of the following is a prime number?

A. 19

B. 20

C. 21

D. 22



Q. Find the mean of first six odd natural numbers?

- A. 6
- B. 11
- C. 7
- D. 5

$$n*n = n^2$$



Which of the following is the output of $57 \times 57 + 43 \times 43 + 2 \times 57 \times 43$?

A. 10000

B. 5700

C. 4300

D. 1000

$$(a+b)^2$$



Q. Which of the following is the output of 6894 x 99?

A. 685506

B. 682506

C. 683506

D. 684506

Ans: B



Q. What is the unit digit in 584 x 428 x 667 x 213 ?

A. 2

B. 3

C. 4

D. 5



Q. The sum of reciprocals of two consecutive numbers is 15/56. The first number is

4. 8

8

B. 7

C. 6

D. 15.

Ans: B



Divisibility (Assignment)

Q. What percentage of the numbers from 1 to 50 have squares ending in the digit 1?

A. 1 B. 10

C. 11

D. 20

Ans: D

1 9 11 19 21 29 31 39 41 49



Q. If $64^2 - 36^2 = 20 \times A$, then A = ?

A. 70

B. 120

C. 180

D. 140

E. None of these

Ans: D



Q. On dividing a number by 19 the difference between quotient and remainder is 9. The number is?

A. 370

Ans: B

B. 371

C. 361

D. 352





Q. $(112 \times 5^4) = ?$

A. 67000

B. 70000

C. 76500

D. 77200

E. None of these

Ans: B



Q. Which of the following is a prime number?

A.143

B. 289

C. 117

D. 359

Ans : D



HCF / GCF(Highest/Greatest Common Factor)

• HCF of two or more numbers is the greatest / largest / highest/biggest number which can divide those two or more numbers exactly.

Factors of 6: 1, 2, 3, 6

Factors of 8: 1, 2, 4, 8

Common 1 & 2 Highest & Common 2

- LCM(Least Common Multiple)
- The LCM of two or more numbers is the smallest / lowest / least number which is exactly divisible by those two or more numbers.

Multiples of 6: 6, 12, 18, 24, 30, 36, 42, 48, 54,...

Multiples of 8: 8, 16, 24, 32, 40, 48, 56, 64....

Common 24, 48, Lowest & common 24



HCF (Factorization method)

• HCF of 54,72,126 (factorization method)

A. 21

B. 18

C. 36

D. 54

Ans: B



HCF (Factorization method)

• Eg. HCF for 136, 144, 168

2	136	144	<u> 168</u>
2	68	72	84
2	34	36	42
	17	18	21
	N	O FURTHER COMMO	ON FACTOR

So HCF =
$$2 \times 2 \times 2 = 8$$

Note: HCF is always <= the smallest of given numbers

HCF (Factorization method) - (Assignment)

• HCF of 54,72,126 (factorization method)

A. 21

B. 18

C. 36

D. 54

Ans: B



HCF (Difference Method)

• Find HCF of 203,319

Keep smaller here

- (203, 319)
- (116,203)
- (87,116)
- (29,87)
- (29,58)
- (29,29)

HCF = 29



HCF (Difference Method) - (Assignment)

• HCF of 161,253 (difference method)

A. 27

B. 18

C. 23

D. 17

Ans: C



HCF

Q. Find HCF of 84,125

- (84,125)
- (41,84)
- (41,43)
- (2,41)
- (2,39)

 If nothing is common then HCF =1 and numbers are said to be co prime numbers.



Q. Find the greatest number which can divide 284, 698 & 1618 leaving the same remainder 8 in each case?

A. 36 B. 46

C. 56

D. 43.

Soln-

Remainder 8 \rightarrow (numbers – 8) would be exactly divisible.

→284-8 = 276

 \rightarrow 698-8 = 690

 \rightarrow 1618-8 = 1610

 \rightarrow Greatest number dividing above 3 = HCF(276, 690, 1610) (difference method)

 \rightarrow HCF = 46

Ans: B

Q. Find the greatest number which can divide 62, 132 & 237 leaving the same remainder in each case?

A. 35

B. 46

C. 56

D. 43.

Soln:-

If two numbers a & b are divisible by a number n then

→ Their difference (a-b) is also divisible by n.

 \rightarrow 132-62 = 70

 \rightarrow 237-132 = 105

 \rightarrow 237-62 = 175

 \rightarrow Greatest number dividing above 3 = HCF(70, 105, 175)

→HCF = 35

Ans: A



Q. Find the largest number such that 43,65,108 are divisible by that number and we get the remainder as 1,2,3 respectively in each case?

A. 21

B. 27

C.42

D. 63

Soln:

→ (numbers – remainder) would be exactly divisible.

$$\rightarrow$$
 43 - 1 = 42

$$\rightarrow$$
 65 - 2 = 63

$$\rightarrow 108 - 3 = 105$$

HCF(42,63,105)=21

Ans: A



Q. A teacher has 25 books, 73 pens & 97 erasers. She wants to distribute them equally to maximum number of students so that after distribution she has equal number of books, pens & erasers left. What is the maximum number of students for such a distribution?

A. 32

B. 21

C. 12

D. 24

soln:- equal remainder

If two numbers a & b are divisible by a number n then

→ Their difference (a-b) is also divisible by n.

→73-25 = 48

 $\Rightarrow 97-73 = 24$

→97-25 = 72

 \rightarrow Greatest number dividing above 3 = HCF(72, 48, 24)

 \rightarrow HCF = 24

Ans: D



HCF & LCM(Assignment)

Q. Find the greatest number which can divide 62, 132 & 237 leaving the same remainder in each case?

A. 35

B. 46

C. 56

D. 43.

Ans: A



HCF & LCM(Assignment)

Q. Find largest number such that if 45,68 and 113 are divided by that number we get the remainder as 1,2 and 3 respectively.

A. 21

B. 22

C. 26

D. 24

Ans: B

HCF



HCF & LCM(Assignment)

Q. Find the greatest number which can divide 41, 131 & 77 leaving the same remainder in each case?

A. 28

B. 18

C. 36

D. 24

Ans: B

131-41 131-77 77-41



Q. LCM for 12,24,20

A. 210

B. 180

C. 120

D. 144

Ans : C



• Eg. LCM for 18, 28, 108, 105

	2	18	28	108	105
	2	9	14	54	105
	3	9	7	27	105
	3	3	7	9	35
	3	1	7	3	35
	5	1	7	1 3	35
	7	1	7	1	7
Till all quotients are 1		1	1	1	1

So LCM = $2 \times 2 \times 3 \times 3 \times 3 \times 5 \times 7 = 3780$

Note: LCM is always >= the greatest of given nos



Q. LCM for 12,24,20

A. 210

B. 180

C. 120

D. 144

Ans: C



Q. Find LCM of 72,125

A. 9000

B. 1200

C. 1000

D. 800

Ans: A



Rules to Remember

Product of two given numbers is equal to the product of their HCF & LCM

$$A \times B = HCF(A,B) \times LCM(A,B)$$

• If a, b, c are three numbers that divide a number n to leave the same remainder r, the smallest value of 'n' is

```
n = (LCM of a, b, c) + r e.g 3,4,5 & rem 1
```



Q. Find LCM of 147 & 231

Soln:-

- As we know,
- HCF X LCM = product
- Find HCF by difference method
- Put in the formula,
- $21 \times LCM = (147 \times 231)$
- 1617



Q. Find LCM of 84 and 125

Soln:-

- As they are co-prime numbers the product is the LCM because HCF =1 (for co-primes)
- HCF x LCM = product
- 1 x LCM = 84 x 125
- LCM = 10500



Q. Find the least number which when divided by 12,15,24 leaves a remainder of 5 in each case

- Soln:
- Find LCM(12,15,24) = ?

If a, b, c are three numbers that divide a number n to leave the same remainder r, the smallest value of 'n' is n = (LCM of a, b, c) + r e.g 3,4,5 & rem 1

• LCM = 120

In an LCM problem, if remainder is common then,

Result = LCM + common remainder



Q. Find the smallest number which when divided by 20,36,45 leaves a remainder 15,31 and 40 respectively.

- Soln:
- Find LCM(20,36,45)
- In LCM problem, if difference is common(constant) then,
- Result = LCM Common difference

- 20
 36
 45
 40
 5
- Result = 180 5 = 175



Q. Four numbers are in the ratio of 10: 12: 15: 18. If their HCF is 3, then find their LCM.

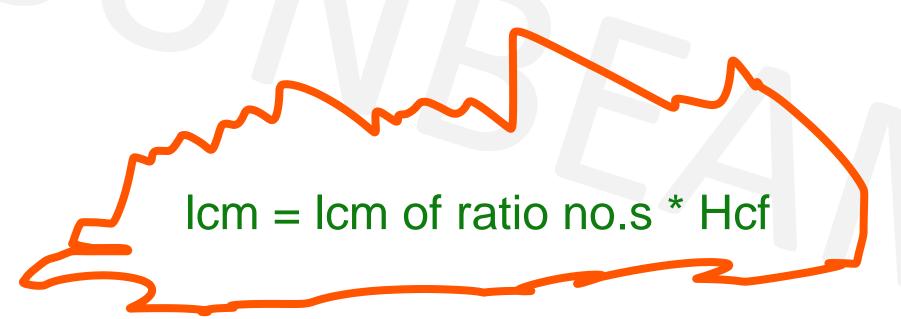
A. 420

B. 540

C. 620

D. 680

Ans: B





Q. Find the least number which when divided by 5,6,7 and 8 leaves a reminder of 3 but when divided by 9 leaves no remainder.

A. 1677

B. 2523

C. 3363

D. 1683

Ans: D



HCF/LCM with Decimal point

- Find HCF of 1.08, 0.36 and 0.9
- Soln:
- 1. Convert each of the decimals into like decimals.
- 1.08, 0.36 and 0.90
- 2. Write each number without decimal point.

HCF(108,36,90) = 18

3. Put decimal point after the numbers which are in like decimals.

Here it is after 2 numbers(digits)

HCF (1.08, 0.36 and 0.90) = 0.18



HCF(Assignment)

Q. In a school of 437 boys & 342 girls it was decided to divide the girls & boys into separate classes. However it was required that each class consist of the same number of students. What would be the number of classrooms required?

A. 41 classrooms B. 14 classrooms C. 17 classrooms D. 26 classrooms

Ans: A

Same Class Size = HCF (Boys, Girls)

- \rightarrow HCF (437,342) = 19
- \rightarrow Boys Classes = $\frac{437}{19}$ = 23
- \rightarrow Girls Classes = 342/19 = 18
- \rightarrow Total Classes = 23 + 18 = 41



Q. Find the least number which when divided by 12,15,40 leaves a remainder of 5 in each case

A. 120

B. 125

C. 130

D. 140

Ans: B

lcm = answer + remainder



Q. If the product of two numbers is 324 and their HCF is 3, then their LCM will be =?

A. 972

B. 327

C. 321

D. 108

Ans: D

product = hcf * lcm



Q. Three number are in the ratio of 3:4:5 and their L.C.M. is 2400. Their H.C.F. is:

A. 40

B. 80

C. 120

D. 200

Ans: A

Icm = Icm of ratio * hcf

3x 4x 5x

find the lcm of 3.4.5 = 60x and equate to lcm 2400 so that we can get the multiple x.Hcf.



Q. Find the least number which when divided by 16,18,20 and 25 leaves a reminder of 4 but when divided by 7 leaves no remainder.

A. 17004

B. 18000

C. 18002

D. 18004

Ans: D



Q. The HCF of two numbers is 8. Which one of the following can never be their LCM?

A. 24

B. 48

C. 56

D. 60

Ans: D

If HCF = 8 then LCM should have a factor of 8
Going by options 60 does not have a factor 8. So never be their LCM.



Q. The LCM of three different numbers is 120. Which of the following cannot be their HCF?

A. 8

B. 12

C. 24

D. 35

Ans: D



Q. HCF of 204,1190,1445

A. 17

B. 18

C. 19

D. 21

Ans: A



Q. LCM of 22,54,108,135 and 198 is -

A. 330

B. 1980

C. 5940

D. 11880



Q. Find HCF of 36 and 84

A. 4

B. 6

C. 12

D. 18



Numbers(Assignment)

Q. The number nearest to 43582 divisible by each of 25, 50 and 75 is?

A. 43500

B. 43550

C. 43600

D. 43650

Ans: D



Numbers(Assignment)

Q. What is the smallest 5 digits number which is divisible by 12, 15, and 18?

A.10010

B. 10015

C.10020

D. 10080

Ans: D

page 17 of pdf

Icm is 180 and and least 5 digit is 10000 whose remai is 100 so 10000+ 180-100



Rules to Remember

• Fractions:

LCM = **LCM** of **Numerators** / **HCF** of **Denominators**

HCF = HCF of Numerators / LCM of Denominators

LCM of 25/12 & 35/18

LCM = 175/6

HCF of 25/12 & 35/18

HCF = 5/36



HCF & LCM Fractions(Assignment)

- Find HCF & LCM of 5/9 and 25/36
- Ans : HCF = 5/36 and LCM = 25/9



Q. There are three numbers, these are co-prime to each other are such that the product of the first two is 551 and that of the last two is 1073. What will be the sum of three numbers:

A. 80

B. 82

C.85

D. 87

Soln:

numbers are co primes, so there is only 1 as their common factor. Given that two products have the middle number in common.

So, middle number = H.C.F. of 551 and 1073 = 29;

So first number is : 551/29 = 19Third number = 1073/29 = 37

So sum of these numbers is = (19 + 29 + 37) = 85



Number system(Assignment)

Q. Find a positive number x, such that the difference between the square of this number and 21 is the same as the product of 4 times the number?

A. 9

B. 27

C. 7

D. 13

$$x^2 - 21 = 4x$$
 factors





