



MATHEMATICS - 10TH

IMPORTANT MCQ'S - MATHS (10TH GRADE)



REAL NUMBERS



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Material Curated by
Er. Sonal Agrawal Sir
Ex. Scientist , BARC Mumbai



10th - Maths

SN		Marks
1	Every _____ can be expressed (factorised) as a product of primes, and this factorisation is unique, apart from the order in which the prime factors occur. (a) Composite number (b) Prime number (c) Even number (d) Odd number	2
2	The prime factorisation of a _____ is unique, except for the order of its factors. (a) Whole number (b) Natural number (c) Integer (d) Real number	1
3	Consider the numbers 4^n, where n is a natural number. Is there any value of n for which 4^n ends with the digit zero ? (a) YES (b) NO	2
4	What are the LCM and HCF of 6 and 20 by prime factorisation method? (a) 60,2 (b) 30,4 (c) 60,4 (d) 30,2	2
5	What are the LCM and HCF (by prime factorisation method) of 6, 72 and 120? (a) 240,6 (b) 360,4 (c) 360,6 (d) 240,4	2
6	How is 140 expressed as a product of its prime factors. (a) $2 \times 3 \times 5 \times 7$ (b) $2 \times 5 \times 5 \times 7$ (c) $2 \times 2 \times 3 \times 7$ (d) $2 \times 2 \times 5 \times 7$	2
7	How is 7429 expressed as a product of its prime factors. (a) $17 \times 19 \times 23$ (b) $17 \times 17 \times 23$ (c) $17 \times 19 \times 21$ (d) $19 \times 19 \times 21$	2





8	What are the LCM and HCF of 17, 23 and 29? (a) 11339,1 (b) 11339,3 (c) 11199,1 (d) 11199,3	2
9	What are the LCM and HCF of 8, 9 and 25? (a) 1800,1 (b) 1600,1 (c) 1800,3 (d) 1600,3	2
10	Given that $HCF(306, 657) = 9$, What is $LCM(306, 657)$? (a) 22,448 (b) 22,558 (c) 22,638 (d) 22,338	2
11	$(7 \times 11 \times 13 + 13)$ and $(7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 + 5)$ are composite numbers. TRUE or FALSE ? (a) TRUE (b) FALSE	2
12	There is a circular path around a sports field. Sonia takes 18 minutes to drive one round of the field, while Ravi takes 12 minutes for the same. Suppose they both start at the same point and at the same time, and go in the same direction. After how many minutes will they meet again at the starting point? (a) After 36 minutes (b) After 38 minutes (c) After 46 minutes (d) After 48 minutes	3
13	A number is called a _____ number, if it has atleast one factor other than 1 and the number itself. Fill in the blank. (a) Prime (b) Composite	1
14	The smallest prime number is? (a) 1 (b) 2 (c) 3 (d) 5	1
15	1,2, 3, 6, 12 all are factors of - (a) 12 (b) 26 (c) 46 (d) 44	1



Classes : VII|VIII|IX|X|XI|XII(CBSE)



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16	HCF (306, 657) = 9, What is LCM (306, 657)? (a) 22,448 (b) 22,558 (c) 22,638 (d) 22,338	2
17	Imagine a seminar where the number of participants in Hindi , English and Mathematics are 60, 84 and 108, respectively. Find the minimum numbers of rooms required if in each room the same number of participants are to be seated and all of them being from the same subject. (a) 21 (b) 42 (c) 12 (d) 24	2
18	On GT road, three consecutive traffic lights change after 36, 42 and 72 s. If the lights are first switched on at 9: 00 am, then at what time in future will they change simultaneously ? (a) 9 : 08 : 24 am (b) 9 : 04 : 26 am	3
19	Imagine a forester wants to plant 66 mango trees, 88 orange trees and 110 apple trees in equal rows (in terms of number of trees). Also, he wants to make distinct rows of trees (i.e. only one type of trees in one row) . Find the number of minimum rows. (a) 48 (b) 24 (c) 12 (d) 16	3
20	Sanket wants to buy pencils and pens. Pens are sold in the pack of 3, pencils are sold in the pack of 5. He buys them such that the number of pens is equal to number of pencils. What is the least number of packs of pens he bought? (a) 1 (b) 3 (c) 5 (d) 15	5
21	Find out the greatest possible length which can be used to measure exactly the length 7m, 3 m 85 cm and 12 m 95 cm. (a) 35 cm (b) 36 cm (c) 37 cm (d) 38 cm	5
22	Find the smallest number which leaves remainders 8 and 12 when divided by 28 and 32 respectively. (a) 240 (b) 224 (c) 204 (d) 244	2





23	What is the smallest number that, when divided by 35, 56 and 91 leaves remainders of 7 in each case ? (a) 3647 (c) 3467	(b) 3633 (d) 3643	2
24	Box that are 12 cm tall are being stacked next to the boxes that are 18 cm tall. What is the shortest height at which two stacks will be at same height ? (a) 36 (c) 18	(b) 24 (d) 30	2
25	If the LCM of 26 and 91 is 182, find their HCF. (a) 26 (c) 15	(b) 13 (d) 17	3
26	State True or False, Let p be a prime number. If p divides a^2 , then p divides a, where a is a positive integer. (a) TRUE	(b) FALSE	1
27	State True or False, $5 - \sqrt{3}$ is irrational. (a) TRUE	(b) FALSE	1
28	If p and q are primes, is $\sqrt{p} + \sqrt{q}$ rational or irrational? (a) RATIONAL	(b) IRRATIONAL	1
29	Is $\frac{22}{7}$ a rational or irrational number? (a) RATIONAL	(b) IRRATIONAL	1
30	The product of two irrationals is always an irrational. True or False? (a) TRUE	(b) FALSE	1
31	Assertion (A) : Every composite number can be expressed (factorized) as a product of primes. Reason (R) : This factorization is unique, apart from the order in which the prime factors occur. (a) Both A and R are true and R is not the correct explanation of A.	(b) Both A and R are true but R is the correct explanation of A.	1





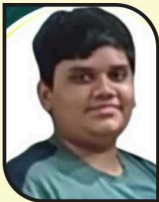
	(c) A is true but R is false.	(d) A is false but R is true.	
32	Assertion (A) : For any two positive integers a and b, $HCF(a,b) \times LCM(a,b) = a \times b$. Reason (R) : The HCF of two numbers is 20 and product is 280 then LCM will be 17. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.		1



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9th



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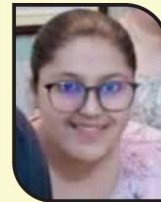
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CLASS
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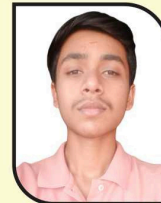
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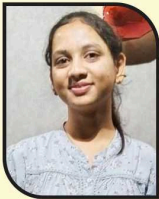


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CLASS
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Sonal Sir With Director ISRO (PS Goel Sir)



SONAL SIR

- Ex Government Nuclear Scientist Bhabha Atomic Reserch Centre (Mumbai)
- Trained More then 1 lakh students online and Offline - Bilaspur, Bhilai, Delhi



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Selected in NTPC

P Chaitanya
Selected in IIT-Bombay,
Placed In Micron



Prakhar Jain
Selected in IISc Bangalore,
Placed In Samsung

सीयू के छात्र मनु व मनीष का इंटेल कंपनी में चयन, 21 लाख सालाना पैकेज



बिलासपुर छात्र मनु कश्यप और मनीष कुमार सिंह का चयन इंटेल प्रोसेसर लिमिटेड के लिए हुआ है। कंपनी इन छात्रों को सालाना 21 लाख रुपए का पैकेज दे रही है। ये दोनों छात्र सत्र 2017 में सीयू के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग से बीटेक की उपाधि प्राप्त की। वर्तमान में ये भारतीय प्रौद्योगिकी संस्थान (आईआईटी) दिल्ली में एमटेक कर रहे हैं। इंटेल कॉरपोरेशन एक अमेरिकी बहुराष्ट्रीय कंपनी है। सिलिकॉन वैली में सांता क्लारा स्थित इस कंपनी का भारत में मुख्यालय बेंगलूर है।

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MATHEMATICS - 10TH

IMPORTANT MCQ'S - MATHS (10TH GRADE)

REAL NUMBERS

1	2	3	4	5	6	7	8
A	B	B	A	C	D	A	A
9	10	11	12	13	14	15	16
A	D	A	A	B	B	A	D
17	18	19	20	21	22	23	24
A	A	C	C	A	B	A	A
25	26	27	28	29	30	31	32
B	A	A	B	A	B	B	C
33	34	35	36	37	38	39	40
-	-	-	-	-	-	-	-
41	42	43	44	45	46	47	48
-	-	-	-	-	-	-	-