

SESSION: 22

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 8

CHAPTER NAME : FACTORS AND MULTIPLES

SUB-TOPIC : EXTRA QUESTIONS (QUIZ)

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE :

Enable the students

- To understand the difference between multiples and factors
- To understand the concept of prime, composite, co-prime and twin prime numbers.
- To understand the properties of Factors and multiples.



EXERCISE 8 [A]

11. Find the prime factors of the following numbers : 27, 35, 63, 91, 100, 77, 54, and 143.





EXERCISE 8 [A]

11. Find the prime factors of the following numbers : 27, 35, 63, 91, 100, 77, 54, and 143.



So, Prime factors of 54 are 2 and 3.

Let's revise

Prime Number & Composite Numbers

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	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
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

Prime numbers





A number is Divisible by	If the last digit is
2	0, 2, 4, 6, 8
5	0, 5
10	0



0.2	A number is Divisible by	If the sum of its digit is divisible by		
3.62	3	3		
	9	9		

A number is Divisible by	If it is divisible by
6	2 and 3
12	3 and 4
15	3 and 5



TEST OF DIVISIBILTY: 4

If the number formed by its last two digits are divisible by 4

or

If the last two digits are **both 0**, then the numbers is divisible

by 4.

Examples: 124, 416, 5440, 9600

TEST OF DIVISIBILTY: 8

If the number formed by its last three digits are divisible by 8

or

If the last three digits are 0, then the numbers is divisible by 8.

Examples: 124, 416, 5440, 9600







TEST OF DIVISIBILTY: 11

If the difference between the sum of the digits at odd places (from the right) and the sum of the digits at even places (from the right) of the number is either 0 or divisible by 11, then the number is divisible by 11

Examples: 308, 1331, 61809, 6556... etc.

Number	Sum of the digits (at odd places) From the right	Sum of the digits (at even places) From the right	Difference
308	8 + 3 = 11	0	11 - 0 = 11
1331	1 + 3 = 4	3 + 1 = 4	4 - 4 = 0
61809	9 + 8 + 6 = 23	0 + 1 = 1	23 - 1 = 22
6556	6 + 5 = 11	6 + 5 = 11	11 - 11 = 0



Say Yes or No for each of the following :

- a) Is 49 a composite number ?
- b) Is 67 a composite number ?
- c) Is 99 a composite number ?
- d) Is 73 a prime number ?
- e) Is 59 a prime number ?
- f) Is 75 a prime number ?
- g) Is 89 a prime number ?
- h) Is 91 a prime number ?





Express each of the following as the sum of two prime numbers :

- a) 12 = _____ + ____
- b) 18 = _____ + ____
- c) 20 = _____ + ____
- d) 30 = _____ + ____
- e) 36 = _____ + ____
- f) 44 = _____ + ____





Express each of the following as the difference of two prime

numbers :

- a) 4 = ____ -
- b) 10 = ____ -
- c) 15 = ____ _
- d) 20 = ____ _
- e) 27 = ____ _
- f) 31 = ____ -





ANSWERS

Say Yes or No for each of the following :

- a) Is 49 a composite number ?
- b) Is 67 a composite number ?
- c) Is 99 a composite number ?
- d) Is 73 a composite number ?
- e) Is 59 a prime number ?
- f) Is 75 a prime number ?
- g) Is 89 a prime number ?
- h) Is 91 a prime number ?



NO

YES





Express each of the following as the sum of two prime numbers :

a)
$$12 = \frac{7}{4} + \frac{5}{5}$$

b) $18 = \frac{11}{4} + \frac{7}{5}$
c) $20 = \frac{17}{4} + \frac{3}{5}$
d) $30 = \frac{11}{4} + \frac{19}{44}$
e) $36 = \frac{17}{4} + \frac{19}{44}$





Express each of the following as the difference of two prime

numbers :

a)
$$4 = \frac{7}{-3} - \frac{3}{-3}$$

b) $10 = \frac{13}{-7} - \frac{3}{-3}$
c) $15 = \frac{17}{-7} - \frac{2}{-3}$
d) $20 = \frac{23}{-7} - \frac{3}{-3}$
e) $27 = \frac{29}{-7} - \frac{2}{-5}$
f) $32 = \frac{37}{-7} - \frac{5}{-7}$





LEARNING OUTCOME:

Students are able

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- To understand the properties of Factors and multiples.



THANKING YOU ODM EDUCATIONAL GROUP

