



INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics

Worksheet - Playing with Numbers (Divisibility rules)

26-06-2020

OBJECTIVE TYPE (1 Mark)

Q.1.	Which of the following numbers is divisible by 2?							
	A	222787	B	1009240	C	8902241	D	3900225
Q.2.	Replace the * by the largest digit so that the number 23905* becomes divisible by 2.							
	A	0	B	4	C	6	D	8
Q.3.	If a number is divisible by 5, the ones place will be							
	A	Either 0 or 1	B	0	C	5	D	either 0 or 5
Q.4.	A number is divisible by 6 if it is							
	A	divisible by 2	B	divisible by both 2 and 3	C	divisible by 3	D	even
Q.5.	Using the tests of divisibility check which of the following numbers are divisible by 9.							
	A	67329	B	668735	C	1235341	D	335882
Q.6.	Replace * by the smallest digit so that 4567*0 is divisible by 4							
	A	0	B	4	C	6	D	2
Q.7.	If a number is divisible by another number, then it is divisible by each of its							
	A	factors	B	multiples	C	digits	D	Last two digits
Q.8.	If the ones place of a given number is 0, the number is divisible by							
	A	5	B	10	C	2	D	All of these
Q.9.	In order to check the divisibility by 8 of a large number, we need to check							
	A	the once place	B	the last two digits	C	Sum of the digits	D	the last 3 digits
Q.10	If a number is divisible by two co-prime numbers, then it is also divisible by their							
	A	sum	B	difference	C	Product	D	successor

Fill in the blanks(1mark)

- Q11.** The number 569344 is divisible by 8 because _____ is divisible by 8.
- Q12.** Two numbers having only 1 as the common factor are called _____ numbers.
- Q13.** If a number is divisible by 9 and 10 both, then it is divisible by _____.
- Q14.** If two given numbers are divisible by a number, then their _____ and _____ are also divisible by that number.
- Q15.** All even numbers are exactly divisible by _____

SECTION B (2 marks)

- Q16.** Check whether 567126 is divisible by 6.
- Q17.** Check whether 1001001001 is divisible by 11.
- Q18.** Which of the following pairs of numbers are co-prime?
a) 12 and 21
b) 14 and 15
- Q19.** Replace the * in the number 7465* by the smallest and greatest digit so that the number becomes divisible by 5.
- Q20.** Make four pairs of co-prime numbers from the numbers given below:
9, 15, 20, 24, 16, 50

SECTION C (4marks)

Q21. Match the following:

COLUMN 1		COLUMN 2	
i	15880	a)	Factor of 27
ii	14 and 27	b)	Divisible by 8
iii	9	c)	Divisible by 3
iv	286500	d)	Co-prime numbers
		e)	Multiple of 11

- Q22.** State whether the following statements are true or false.
- a) If a number is divisible by 4 then it must be divisible by 8.
- b) If a number is divisible by 5 and 6 then it is also divisible by 11.
- c) If two numbers are separately divisible by 9, their sum is also divisible by 9.
- d) Two consecutive numbers are co-prime.

Q23.	Replace *by the smallest digit so that the number 8559*78 is divisible by 11.
Q24.	Check whether the number 33588 is a) divisible by 3 b) divisible by 9 c) divisible by 4 d)divisible by 8
Q25.	Give reasons for the following statements: a) If 365238 is divisible by 18, it will be also divisible by 2 and 9. b) The numbers 36 and 54 are divisible by 3 shows that 90 and 18 are also divisible by 3. c) If a number is divisible by both 5 and 6, then it is also divisible by 30. d) If a number is divisible by 8, it is also divisible by 4.

Answers	1	B)1009240	2	D) 8	3.	D)either 0 or 5	4	B) divisible by both 2 and 3	
	5	A)67329	6	A) 0	7	A) factors	8	D) all of these	
	9	D) last 3 digits	10	C) product	11	344	12	Co-prime	
	13	90	14	Sum & difference	15	2	16	Yes	
	17	Yes	18	a) No b) Yes	19	0, 5	20	(9,20), (9,16), (15,16), (9,50)	
	21	i)--b ii)-- d iii) - a iv) --c	22	a) False b) False c) True d) True	23	Ans=0; Sum of odd places= $8+*+5+8=21+*$ Sum of even places= $7+9+5=21$ So, if $*=0$, difference =0	24	a) Yes b) Yes c) Yes d) No	
	25	a) If a number is divisible by another number, then it is divisible by each of the factors of that number. b) If two given numbers are divisible by a number, then their sum and difference is also divisible by that number. c) If a number is divisible by two co-prime numbers, then it is divisible by their product also. d) If a number is divisible by another number, then it is divisible by each of the factors of that number.							
