Worksheet -5 Subject: - Mathematics Class: - VI Teacher: - Mrs. Poonam Sunil
Name: _____ Class & Sec: _____ Roll No. _____ Date: 06.08.2020

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WORKSHEET (5)

Class - VI

Subject - Mathematics Teacher: MRS POONAM SUNIL

Good Morning Students!

Co-prime numbers :- Two numbers having only 1 as a common factor are called co-prime numbers.

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Q5. Which of the following numbers are co-prime?

a) 18 and 35

18	35
$1 \times 18 = 18$	$1 \times 35 = 35$
$2 \times 9 = 18$	$5 \times 7 = 35$
$3 \times 6 = 18$	
Factors of 18 are 1, 2, 3, 6, 9, 18	Factors of 35 are 1, 5, 7, 35

Common factors are 1.

∴ 18 and 35 are coprime numbers

b) 15 and 37

15	37
$1 \times 15 = 15$	$1 \times 37 = 37$
$3 \times 5 = 15$	
Factors of 15 are 1, 3, 5 and 15	Factors of 37 are 1 and 37

Common factors is 1

∴ 15 and 37 are coprime numbers

c) 30 and 415

30	415
$1 \times 30 = 30$	$1 \times 415 = 415$
$2 \times 15 = 30$	$5 \times 83 = 415$
$3 \times 10 = 30$	
$5 \times 6 = 30$	

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Factors of 30 are (1) 2, 3 (5), 6, 10, 15, 30 | Factors of 415 are (1), (5), 83 and 415

Common factors are 1 and 5

∴ 30 and 415 is not a pair of co-prime numbers.

Q6. A number is divisible by both 5 and 12. By which other number will that number be always divisible?

Sol:-

Here 5 and 12 are the factors of that number

∴ $5 \times 12 = 60$

Hence the number is 60 which is always divisible.

Q7. A number is divisible by 12. By what other numbers will that number be divisible?

Sol:-

Factors of 12 are 3 and 4

Hence numbers which are divisible by 12, that must be divisible by 3 and 4.

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