

Name: \_\_\_\_\_

Class &amp; Sec: \_\_\_\_\_

Roll No. \_\_\_\_\_

Date: 04.08.2020

(Page 1)

WORKSHEET (3)

Date: (4-8-20)

Class - VI

Subject - Mathematics

Teacher: Mrs. Poonam Sunil

PAGE NO.

DATE:

Good Morning Students!  
 Today I am going to tell you about Common Factors  
 and Common Multiples given on page 58.  
Common Multiples and Common Factors.

Example 1:- What are the factors of 4 and 18?

Solution :-

The factors of 4 are ①, ② and 4.  
 The factors of 18 are ①, ②, 3, 6, 9 and 18.  
 Common factors are 1 and 2.

Example 5:- Find the Common factors of 75, 60 and 210.

Sol:-

75	60	210
$1 \times 75 = 75$	$1 \times 60 = 60$	$1 \times 210 = 210$
$3 \times 25 = 75$	$2 \times 30 = 60$	$2 \times 105 = 210$
$5 \times 15 = 75$	$3 \times 20 = 60$	$3 \times 70 = 210$
Factors of 75 are ①, ③, ⑤, ⑮, 25 and 75	$4 \times 15 = 60$	$5 \times 42 = 210$
	$5 \times 12 = 60$	$7 \times 30 = 210$
	$6 \times 10 = 60$	$10 \times 21 = 210$
	Factors of 60 are ①, ②, ③, ④, ⑤, 6, 10, 12, ⑮, 20, 30, 60	$14 \times 15 = 210$ Factors of 210 are ①, ②, ③, ⑤, 7, 10, 21, ⑮, 14, 30, 42, 70, 105, 210

Common factors of 75, 60 and 210 are  $\rightarrow$  (1, 3, 5 and 15).

## Ex-3.4

Q1 Find the common factors of

a) 20 and 28

20

$$1 \times 20 = 20$$

$$2 \times 10 = 20$$

$$4 \times 5 = 20$$

Factors of 20 are

①, ②, ④, 5, 10 and 20

Common factors are 1, 2 and 4

28

$$1 \times 28 = 28$$

$$2 \times 14 = 28$$

$$4 \times 7 = 28$$

Factors of 28 are

①, ②, ④, 7, 14 and 28

b) 15 and 25

15

$$1 \times 15 = 15$$

$$3 \times 5 = 15$$

Factors of 15 are ①, 3, 5 and 15

Factors of 25 are ①, 5, 25

Common factors are 1 and 5

25

$$1 \times 25 = 25$$

$$5 \times 5 = 25$$

c) 35 and 50

35

$$1 \times 35 = 35$$

$$5 \times 7 = 35$$

Factors of 35 are

①, ⑤, 7 and 35

50

$$1 \times 50 = 50$$

$$2 \times 25 = 50$$

$$5 \times 10 = 50$$

Factors of 50 are

①, 2, ⑤, 10, 25, 50

Common factors are 1 and 5

x ————— x