

O.C.W
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Exercise-9(B)

Date _____
Page _____

i) On dividing 9 by 7, Quotient = 1 and
Remainder = 2

ii) On dividing 18 by 6, Quotient = 3 and
Remainder = 0

iii) Factor of a number is exact divisor of the ~~number~~ ^{number}.

iv) Every number is a factor of itself

v) Every number is a ~~mult~~ Multiple of itself

vi) 1 is a factor of every number.

vii) x is a factor of y , then y is a multiple of x .

2.i) Factors of 16: 1, 2, 4, 8, 16

ii) Factors of 21: 1, 3, 7, 21

iii) Factors of 39: 1, 3, 13, 39

iv) Factors of 48: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

v) Factors of 64: 1, 2, 4, 8, 16, 32, 64

vi) Factors of 98: 1, 2, 7, 14, 49, 98

$1 \times 4 = 4, 2 \times 4 = 8, 3 \times 4 = 12, 4 \times 4 = 16, 5 \times 4 = 20, 6 \times 4 = 24$ Hence

3.i) $4 = 4, 8, 12, 16, 20, 24$

ii) $9 = 9, 18, 27, 36, 45, 54$

$1 \times 9 = 9, 2 \times 9 = 18, 3 \times 9 = 27, 4 \times 9 = 36, 5 \times 9 = 45, 6 \times 9 = 54$

Date _____
Page _____

$$11 \times 1 = 11, 11 \times 2 = 22, 11 \times 3 = 33, 11 \times 4 = 44, 11 \times 5 = 55, 11 \times 6 = 66$$

iii) $11 = 11, 22, 33, 44, 55, 66$

$$15 \times 1 = 15, 15 \times 2 = 30, 15 \times 3 = 45, 15 \times 4 = 60, 15 \times 5 = 75, 15 \times 6 = 90 \text{ Hence,}$$

iv) $15 = 15, 30, 45, 60, 75, 90$

$$18 \times 1 = 18, 18 \times 2 = 36, 18 \times 3 = 54, 18 \times 4 = 72, 18 \times 5 = 90, 18 \times 6 = 108 \text{ Hence,}$$

v) $18 = 18, 36, 54, 72, 90, 108$

$$16 \times 1 = 16, 16 \times 2 = 32, 16 \times 3 = 48, 16 \times 4 = 64, 16 \times 5 = 80, 16 \times 6 = 96 \text{ Hence,}$$

vi) $16 = 16, 32, 48, 64, 80, 96$

④ since, $36 = 1 \times 36, 2 \times 18, 3 \times 12, 4 \times 9, 6 \times 6$

Clearly numbers are 4 and 9 = 36 and $4 + 9 = 13$

⑤ 48 can be written as

$$1 \times 48 = 48, 2 \times 24 = 48, 3 \times 16 = 48$$

$$4 \times 12 = 48, 6 \times 8 = 48$$

Here, the sum of 4 and 12 is 16

Hence, 4 and 12 are the two numbers.