

Ex. 9 B

1) Fill in the blanks.

i) On dividing 9 by 7, quotient = 1 and remainder = 2.

ii) On dividing 18 by 6, quotient = 3 and remainder = 0.

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- iii) Factor of a number is exact divisor of the number.
- iv) Every number is a factor itself.
- v) Every number is a multiple of itself.
- vi) 1 is a factor of every number.
- vii) For every number, its factor are finite and its multiples are infinite.
- viii) x is a factor of y , then y is a multiple of x .

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2) Write all factors of:

i) 16

Ans \rightarrow 1, 2, 4, 8, 16.

ii) 21

Ans \rightarrow 1, 3, 7, 21.

iii) 39

Ans \rightarrow 1, 3, 13, 39.

iv) 48

Ans \rightarrow 1, 2, 3, 4, 6, 8, 12, 16, 24, 48.

v) 64

Ans \rightarrow 1, 2, 4, 8, 16, 32, 64.

vi) 98

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Ans $\rightarrow 1, 2, 7, 14, 49, 98$

3) Write the first six multiples of:

i) 4

Ans $\rightarrow 4, 8, 12, 16, 20, 24.$

ii) 9

Ans $\rightarrow 9, 18, 27, 36, 45, 54.$

iii) 11

Ans $\rightarrow 11, 22, 33, 44, 55, 66.$

iv) 15

Ans $\rightarrow 15, 30, 45, 60, 75, 90.$

v) 18

Ans $\rightarrow 18, 36, 54, 72, 90, 108.$

vi) 16

Ans $\rightarrow 16, 32, 48, 64, 80, 96.$

4) The product of two numbers is 36 and their sum is 13. Find the numbers.

Ans → The product of two numbers = 36.

The sum of two numbers = 13.

The factors of the number =

$$1 \times 36 = 1 + 36 = 37$$

$$2 \times 18 = 2 + 18 = 20$$

$$3 \times 12 = 3 + 12 = 15$$

$$4 \times 9 = 4 + 9 = 13$$

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$$6 \times 6 = 36 = 6 + 6 = 12.$$

Therefore $4 + 9 = 13$. Therefore, the required two numbers are 4 and 9.

5) The product of two two numbers is 48 and their sum is 16. Find the numbers.

Ans → The product of two numbers = 48.

The sum of two numbers = 16.

Since, $48 = 1 \times 48, 2 \times 24, 3 \times 16, 4 \times 12, 6 \times 8$.

Therefore, the numbers are 4 and 12 as $4 \times 12 = 48$ and $4 + 12 = 16$.