

Ex-3.1

Q Write all the factors of the following numbers:

(i) 18

$$1 \times 18 = 18$$

$$2 \times 9 = 18$$

$$3 \times 6 = 18$$

Factors of 18 = 1, 2, 3, 6, 9, 18

(ii) 24

$$1 \times 24 = 24$$

$$2 \times 12 = 24$$

$$3 \times 8 = 24$$

$$4 \times 6 = 24$$

Factors of 24 = 1, 2, 3, 4, 6, 8, 12, 24

(iii) 45

$$1 \times 45 = 45$$

$$3 \times 15 = 45$$

$$5 \times 9 = 45$$

Factors of 45 = 1, 3, 5, 9, 15, 45

(iv) 60

$$1 \times 60 = 60$$

$$2 \times 30 = 60$$

$$3 \times 20 = 60$$

$$4 \times 15 = 60$$

$$5 \times 12 = 60$$

$$6 \times 10 = 60$$

Factors of 60 = 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60

(v) 65

$$1 \times 65 = 65$$

$$5 \times 13 = 65$$

Factors of 65 = 1, 5, 13, 65

2 Q → Write first six multiples of following numbers:

(i) 6

First six multiples of 6 = 6, 12, 18, 24, 30, 36

(ii) 9

First six multiples of 9 = 9, 18, 27, 36, 45, 54

(iii) 11

First six multiples of 11 = 11, 22, 33, 44, 55, 66

(iv) 15

First six multiples of 15 = 15, 30, 45, 60, 75, 90

(v) 24

First six multiples of 24 = 24, 48, 72, 96, 120, 144

3 Q. List all the numbers less than 100 that are multiples of

(i) 17

Multiples of 17 = 17, 34, 51, 68, 85

(ii) 12

Multiples of 12 = 12, 24, 36, 48, 60, 72, 84, 96

(iii) 21

Multiples of 21 = 21, 42, 63, 84

4 Q. Which of the following are prime numbers?

(i) 39

Not a prime number.

(ii) 129

Not a prime number.

(iii) 177

Not a prime number

(iv) 203

a prime number.

(v) 237 not a prime number

(vi) 361 not a prime number.

5 Q → Express each of the following as sum of two odd prime numbers:

(i) 16

$$16 = 3 + 13$$

(ii) 28

$$28 = 11 + 17$$

(iii) 40

$$40 = 3 + 37$$

6 Q → Write all the prime numbers between the given numbers:

(i) 1 to 25

Prime numbers between 1 to 25 ÷

2, 3, 5, 7, 11, 13, 17, 19, 23

(ii) 85 to 105

Prime numbers between 85 to 105 ÷ 89, 97,
101, 103

(ii) 120 to 140

Prime numbers between 120 to 140 = 127,
129, 131, 137, 139

7 Q: Is 36 a perfect number?

Solⁿ No, 36 is a perfect number

8 Q: Find the missing factors:-

(i) $5 \times \underline{6} = 30$

(ii) $\underline{8} \times 6 = 48$

(iii) $7 \times \underline{9} = 63$

(iv) $\underline{13} \times 8 = 104$

(v) $\underline{15} \times 7 = 105$

9 Q List all 2-digit prime numbers, in which both the digits are prime numbers.

Solⁿ 23, 37, 53, 73