

Evaluation Question

Exercise 8(A)

i) 15 - 1, 3, 5, 15
6, ~~9~~, 12, ~~18~~, ~~48~~, 36

ii) 55 - 1, 5, 11, 55

iii) 36 - 1, 2, 3, 4,

iv) 48 - 1, 2, 3, 4, 6, 8, 12, 16, 24, 48.

v) 84 - 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, and 84.

2. i) less than 25

Ans. 2, 3, 5, 7, 11, 13, 17, 19, 23 are the prime numbers less than 25.

ii) between 15 and 35.

Ans. 17, 19, 23, 29, 31 are the prime numbers between 15 and 35.

iii) between 8 and 76.

11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73 are the prime numbers between 8 and 76.

3. i) 5 to 45.

Ans. The prime numbers from 5 to 45 are 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43.

ii) 2 to 32

Ans. The prime numbers from 2 to 32 are 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31.

iii) 8 to 48.

Ans. The prime numbers from 8 to 48 are 11, 13, 17, 19, 23, 29, 31, 37, 41, 43 and 47.

iv) 9 to 59.

Ans. The prime numbers from 9 to 59 are 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59.

4) i) 16 - 1, 2, 4, 8, 16
prime factor = 2

ii) 27 - 1, 3, 9, 27
prime factor = 3

iii) 35 - 1, 5, 7, 35.
prime factor = 5.

iv) 49 - 1, 7, 49.

5) i) $P_6 = 1, 2, 3, 6,$
 $P.F_6 = 2, 3,$

ii) $P_{24} = 1, 2, 3, 4, 6, 8, 12, 24$
 $P.F_{24} = 2, 3,$

iii) $P_{50} = 1, 2, 5, 10, 25, 50$
 $P.F_{50} = 2, 5,$

iv) $P_{42} = 1, 2, 3, 6, 7, 14, 21,$
 $P.F_{42} = 2, 3, 7,$