

C.W
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Exc - 8(A)

i) Write all the factors of :

i) 15

Ans) 1×15
 3×5

Factors of 15 are 1, 3, 5, 15

ii) 55

Ans) 1×55
 5×11

Factors of 55 are 1, 5, 11, 55

iii) 48

Ans) 1×48
 2×24
 3×16
 4×12
 6×8

Factors of 48 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 48.

iv) 36

Ans) 1×36
 2×18

3×12

4×9

6×6

Factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18, 36

v) 84

Ans) 1×84

2×42

3×28

4×21

6×14

7×12

Factors of 84 are 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

2) Write all prime numbers:

i) less than 25

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

ii) 15 and 35

Ans) 17, 19, 23, 29 and 31

iii) 8 and 76

Ans 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71 and 73

3) Write the prime nos. from:

i) 5 to 45

Ans) 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41 and 43

ii) 2 to 32

Ans) 2, 3, 5, 7, 11, 13, 17, 19, 23, 29 and 31

iii) 11 to 49

Ans) 11, 13, 17, 19, 23, 29, 31, 37, 41, 43 and 47

iv) Ans) 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, and 59

4) Write the prime factors of :

i) 16

Ans) 1×16
 2×8
 4×4

factors of 16 = 1, 2, 4, 8, 16
Prime factors of 16 = 2

ii) 27

Ans) 27×27
 3×9

factors of 27 = 1, 3, 9, 27
Prime factors of 27 = 3

iii) 35

1×35
 5×7

factors of 35 = 1, 5, 7, 35
Prime factors of 35 = 5, 7

iv) 49

Ans) 1×49
 7×7

factors of 49 = 1, 7, 49
Prime factors of 49 = 7

3) If P_n means primes factors of n , find :-

i) P_6

Ans) 2, 3 are P's of 6

ii) P_{24}

Ans) 2, 3 are P's of 24

iii) P_{50}^*

Ans) 5, 25 are P's of 50

iv) P_{42}

Ans) 2, 12, 7 are P's of 42