Thu

Monday

Ex. 8 A

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1) Write all the factors of:

i) 15

Ans→ Factors of 15 are 1, 3, 5 and 15.

ii) 55

Ans→ Factors of 55 are 1, 55, 5, 11.

iii) 48

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

iv) 36

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

v) 84

Ans→ 1, 2, 42, 3, 28, 4, 21, 6, 14, 7, 12, 84.

2) Write all prime numbers:

i) less than 25

Ans→ 2, 3, 5, 7, 11, 13, 17, 19, 23.

ii) between 15 and 35

Ans→ 17, 19, 23, 29, 31.

iii) between 8 and 76.

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

3) Write the prime numbers from:

i) 5 to 45

Ans→ 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 45.

ii) 2 to 32

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

iii) 8 to 48

Ans→ 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 45, 47,

iv) 9 to 59

Ans→ 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 45, 47, 53, 59.

4) Write the prime factors of:

i) 16

Ans→

2	16
2	8
2	4
	2

16 = 2×2×2×2.

Therefore, the prime factor of 16 is 2.

ii) 27

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Ans → 3 | 27 — 27 = 3 × 3 × 3.
3 | 9
3

Therefore, the prime factor of 27 is 3.

iii) 35

5 | 35 — 35 = 5 × 7.
7

Therefore, the prime factors of 35 are 5 and 7.

iv) 49

Ans → 7 | 49 — 49 = 7
7

Therefore, the prime factor of 49 is 7.

5) If P_n means prime factors of numbers, find:

i) P_6

Ans → 2 | 6 — 6 = 2 × 3. The prime factors of 6 are 2 and 3.
3

ii) P_{24}

Ans → 2 | 24 — 24 = 2 × 2 × 2 × 3.
2 | 12
2 | 6
3

The prime factors of 24 are 2 and 3.

iii) P_{50}

Ans → 2 | 50 — 50 = 2 × 5 × 5. The prime factors of 50 are 2 and 5.
5 | 25
5

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iv) 42

$2 \mid 42$
$3 \mid 21$
7

$42 = 2 \times 3 \times 7.$

Therefore, the prime factors of 42 are 2, 3, 7.

Ex. 8 B

1) i) 16, 35