

Worksheet on Sets in Set-builder Form

Practice the worksheet on sets in Set-builder Form to write a set using the Rule or Set-builder method. We know, to express the set in Set-builder Form actual elements of the set are not listed but a rule or a statement or a formula in the briefest possible way.

1. Write each given set in the Set-Builder Form:

- (i) {2, 4, 6, 8, 10}
- (ii) {2, 3, 5, 7, 11}
- (iii) {January, June, July}
- (iv) {a, e, i, o, u}
- (v) {Tuesday, Thursday}
- (vi) {1, 4, 9, 16, 25}
- (vii) {5, 10, 15, 20, 25, 30}

2. Write the following sets in Set-Builder Form or Rule form:

- (i) $A = \{1, 3, 5, 7, 9\}$
- (ii) $B = \{16, 25, 36, 49, 64\}$
- (iii) $C = \{a, e, i, o, u\}$
- (iv) $D = \{\text{violet, indigo, blue, green, yellow, orange, red}\}$
- (v) $E = \{\text{January, March, May, July, August, October, December}\}$