



#### Exercise 4D

Q1

**Answer :**

(a)

141 is not a perfect cube.

(b)

294 is not a perfect cube.

(c) (✓)

216 is a perfect cube.

$$216 = (2 \times 2 \times 2) \times (3 \times 3 \times 3) = (2^3) \times (3^3) = 6^3$$

(d)

496 is not a perfect cube.

Q2

**Answer :**

(a)

$$1152 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 = (2)^3 \times (2)^3 \times (2 \times 3 \times 3).$$

Hence, 1152 is not a perfect cube.

(b) (✓)

$$1331 = 11 \times 11 \times 11 = (11)^3$$

Hence, 1331 is a perfect cube.

(c)

$$2016 = 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 7 = (2)^3 \times 2 \times 2 \times 3 \times 3 \times 7$$

Hence, 2016 is not a perfect cube.

(d)

739 is not a perfect cube.

Q3

**Answer :**

(c) 8

\*\*\*\*\* END \*\*\*\*\*