# Revision : 1

**1. Answer the following questions with correct option given below :**

(1) The digit at unit place of a number is 7, then what will be the digit at unit place of the number obtained by cubing it.

(a) 1 (b) 3 (c) 7 (d) 9

(2) Which number from the following is perfect cube ?

(a) 2197 (b) 980 (c) 373 (d) 3555

(3) The digit at unit place of a perfect cube number is 2, then what will be the digit at unit place of the number by getting its cube root.

(a) 2 (b) 4 (c) 8 (d) 6

(4) What is the additive inverse (opposite) of $\frac{3}{7}$ ?

(a) 0 (b) $\frac{7}{3}$ (c) $\frac{-7}{3}$ (d) $\frac{-3}{7}$

(5) How can $3\frac{5}{6}$ be written in $\frac{p}{q}$ form ?

(a) $\frac{18}{6}$ (b) $\frac{23}{6}$ (c) $\frac{33}{6}$ (d) $\frac{6}{23}$

(6) If $x^2 \times q = 1$, then $q =$ ..... ?

(a) $x$ (b) $x^0$ (c) $x^2$ (d) $x^{-2}$

(7) What is the simplified form of $\left(\frac{1}{2}\right)^{-3}$ ?

(a) 3 (b) 8 (c) (–8) (d) $\left(\frac{-1}{8}\right)$

(8) If $8^x = 64$, then $x =$ ?

(a) 2 (b) 4 (c) 8 (d) 16

**2. Fill in the blanks :**

(1) A number having digit 2 at unit place, then its cube has digit ..... at its unit place.

(2) The cube root of 42,875 is ..... (find by assuming not by calculation).

(3) $3^2 \times 3^4 = 3^{\cdots\cdots}$

(4) $5^6 \div 5^2 = 5^{\cdots\cdots}$

(5) $(\ldots\ldots)^5 = 243$

(6) The multiplication inverse (reciprocal) of $\frac{1}{7}$ is ..... .

(7) $\frac{2}{5} + \left(\frac{-2}{5}\right) = \left(-\frac{2}{5}\right) +$ ..... .

(8) $\left(-\frac{3}{8}\right) \times$ ..... $= \left(-\frac{3}{8}\right)$

**3.** Which numbers are perfect cube from the following ? Verify.

(1) 729 (2) 400 (3) 1000

**4.** Multiplied by which the smallest number to 576 can we get the perfect cube number ?

**5.** Classify the following number in positive rational number, negative rational number and zero rational number :

$\frac{0}{5}, \frac{4}{7}, \left(\frac{-17}{2}\right), \frac{0}{15}, \left(\frac{-3}{8}\right), \frac{4}{19}, \frac{0}{25}, \frac{9}{25}, \left(\frac{-3}{23}\right)$

**6.** Find the value : (1) $\left(\frac{27}{16}\right)^4 \div \left(\frac{9}{8}\right)^6$ (2) $[(9^2 \times 5^2) \div (3^2 \times 5)^2] \div \frac{1}{15}$

**7.** Simplify : $(15x^6 \div 3x^4) \times 2x^2$

**8.** Show $2\frac{3}{4}$, 1.5 and $\frac{-1}{2}$ on the number line.

## Answers

**1.** (1) b (2) a (3) c (4) d (5) b (6) d (7) b (8) a

**2.** (1) 8 (2) 35 (3) 6 (4) 4 (5) 3 (6) 7 (7) $\frac{2}{5}$ (8) 1

**3.** (1) Yes (2) No (3) Yes **4.** By 3

**5.** Positive rational number : $\frac{4}{7}, \frac{4}{19}, \frac{18}{50}$ Negative rational number : $\left(\frac{-17}{2}\right), \left(\frac{-3}{8}\right), \left(\frac{-3}{23}\right)$

Zero rational number : $\frac{0}{5}, \frac{0}{15}, \frac{0}{90}$

**6.** (1) 4 (2) 15 **7.** $10x^4$