



STANDARD 7TH: CHAPTER 5

Operation Rational Numbers

Q.1 Choose the correct alternative.

- 1. Which of the following numbers is a rational number?
 - а. √2 b. П
 - **C.** ³⁄₄
 - d. e
- 2. What is the sum of $\frac{2}{3}$ and $-\frac{5}{6}$?

a.
$$-\frac{2}{6}$$

b. $-\frac{1}{6}$
c. $\frac{3}{6}$
d. $\frac{4}{6}$

3. Simplify
$$\frac{7}{12} \times \frac{28}{3} - \frac{7}{q_0} \times \frac{5}{13} + \frac{2}{13} \times 169$$

a. $\frac{2103}{75}$
b. $\frac{2005}{78}$
c. $\frac{2105}{78}$
d. $\frac{2000}{78}$

4. Express in standard form: $-\frac{3426}{366}$

a.
$$\frac{1524}{51}$$

b. $\frac{571}{61}$
c. $\frac{1713}{183}$
d. $\frac{571}{65}$

- 5. By what rational number should $-\frac{8}{65}$ to multiplied to get $\frac{5}{26}$
 - a. $-\frac{26}{15}$ b. $-\frac{25}{14}$ c. $-\frac{25}{16}$ d. $-\frac{24}{25}$

- 6. Which of the following is rational Number between 2 and 3?
 - a. $\frac{8}{3}$ b. $\frac{16}{3}$ c. $\frac{11}{3}$ d. $\frac{9}{2}$
- 7. How many pieces each of length $3\frac{3}{4}$ m can be cut from a rope of 60m?
 - a. 15
 - b. 20
 - c. 14
 - d. 16
- Shravan earns Rs.16000 per month. He spends 1/4 of his income on food;
 3/10 of the remainder on house rent and 5/21 of the remainder on the education of children. How much money is still left with him?
 - a. Rs. 6400
 - b. Rs. 5000
 - c. Rs. 3400
 - d. Rs. 4500
- 9. The product of two rational numbers is 48/5. If one of the rational numbers is 66/7, find the other rational number.
 - a. 54/55
 - b. 52/51
 - c. 53/54
 - d. 56/55
- 10. A cord of length 143/2 m has been cut into 26 pieces of equal length. What is the length of each piece?
 - a. 4/11
 - b. 55/11
 - c. 11/4
 - d. 2/11

Q.2. Solve.

- 1. Find the area of a rectangular park which is 183/5 m long and 50/3 m broad.
- 2. A truck moves at an Average Speed of 180/4 Km/hr. How much distance will it cover in 12/3 hrs?
- 3. Area of a room is 214/2 m². If the breadth is 83/4m what is its length?
- 4. A teacher wants to give pizza to her students and each student can eat ¼ of a pizza. If there are 25 students in her class, how many pizzas does she need?
- 5. Pipe A can fill a tank in 10 minutes and pipe B can fill the same tank in 8 minutes. How long will it take to fill the tank, if both the pipes are opened together?
- 6. What is reciprocal of $\frac{2}{3} \div \frac{1}{3} \frac{1}{2} \times \frac{1}{2}$?
- 7. John bought 25 kg of Rice and he used 1¾ kg on the first day, 4½ kg on the second day. Find the remaining quantity of rice left.
- 8. Write the following numbers in ascending order: -3/7, -3/2, -3/4
- 9. Find any 5 rationales between 3 and 4.
- 10.An airplane covers 1020 km in an hour. How much distance will it cover in 25/6 hours?