

# Practice Test Papers on Fractions and Decimals

Class 7 (CBSE / ICSE)

## Test Paper 1

Test Code: 2026/Fractions and Decimals/Class7/01

1. Which of the following is an improper fraction equivalent to  $4\frac{5}{12}$ ?

**Solution:** Convert the mixed number to an improper fraction:

$$4\frac{5}{12} = \frac{4 \times 12 + 5}{12} = \frac{48 + 5}{12} = \frac{53}{12}$$

**Answer:**

2. The product of 0.03 and 0.007 is:

**Solution:** Multiply the two decimals:

$$0.03 \times 0.007 = 0.00021$$

**Answer:**

3. Evaluate:  $\frac{3}{5} + \frac{1}{2} - \frac{1}{10}$

**Solution:** Find a common denominator (10) and perform the operations:

$$\frac{3}{5} = \frac{6}{10}, \quad \frac{1}{2} = \frac{5}{10}, \quad \frac{1}{10} = \frac{1}{10}$$

$$\frac{6}{10} + \frac{5}{10} - \frac{1}{10} = \frac{10}{10} = 1$$

**Answer:**

4. If  $2.5x = 0.0125$ , then the value of  $x$  is:

**Solution:** Solve for  $x$ :

$$x = \frac{0.0125}{2.5} = 0.005$$

**Answer:**

5. What should be added to  $7\frac{3}{5}$  to get 12?

**Solution:** Convert the mixed number to an improper fraction:

$$7\frac{3}{5} = \frac{38}{5}$$

Let the number to be added be  $y$ :

$$\frac{38}{5} + y = 12 \implies y = 12 - \frac{38}{5} = \frac{60}{5} - \frac{38}{5} = \frac{22}{5} = 4\frac{2}{5}$$

**Answer:**

6. The value of  $0.5 \div 0.05$  is:

**Solution:** Divide the two decimals:

$$0.5 \div 0.05 = \frac{0.5}{0.05} = 10$$

**Answer:** C

7. A ribbon of length  $5\frac{1}{4}$  m is cut into small pieces each of length  $\frac{3}{4}$  m. Number of pieces is:

**Solution:** Convert the mixed number to an improper fraction:

$$5\frac{1}{4} = \frac{21}{4}$$

Divide the total length by the length of each piece:

$$\frac{21}{4} \div \frac{3}{4} = \frac{21}{4} \times \frac{4}{3} = 7$$

**Answer:** C

8. Express 250g as a fraction of 2kg in simplest form:

**Solution:** Convert 2kg to grams:

$$2 \text{ kg} = 2000 \text{ g}$$

The fraction is:

$$\frac{250}{2000} = \frac{1}{8}$$

**Answer:** B

9. Which is greater:  $0.5 \times 0.5$  or  $0.5 \div 0.5$ ?

**Solution:** Calculate both expressions:

$$0.5 \times 0.5 = 0.25, \quad 0.5 \div 0.5 = 1$$

$1 > 0.25$ , so  $0.5 \div 0.5$  is greater. **Answer:** B

10. The place value of 7 in 12.075 is:

**Solution:** The digit 7 is in the thousandths place. **Answer:** D

11.  $\frac{2}{3}$  of a number is 20. What is  $\frac{1}{2}$  of that number?

**Solution:** Let the number be  $x$ :

$$\frac{2}{3}x = 20 \implies x = 30$$

$\frac{1}{2}$  of the number is:

$$\frac{1}{2} \times 30 = 15$$

**Answer:** B

12. Convert 0.125 into a fraction in simplest form:

**Solution:**

$$0.125 = \frac{125}{1000} = \frac{1}{8}$$

**Answer:**

13. The reciprocal of  $1\frac{2}{3}$  is:

**Solution:** Convert the mixed number to an improper fraction:

$$1\frac{2}{3} = \frac{5}{3}$$

The reciprocal is:

$$\frac{3}{5}$$

**Answer:**

14.  $1.1 \times (0.1 + 0.01)$  equals:

**Solution:** Calculate inside the parentheses first:

$$0.1 + 0.01 = 0.11$$

Multiply:

$$1.1 \times 0.11 = 0.121$$

**Answer:**

15. A tank is  $\frac{2}{5}$  full. If 12 liters more are added, it becomes  $\frac{3}{4}$  full. Capacity of tank is:

**Solution:** Let the capacity of the tank be  $C$ :

$$\frac{2}{5}C + 12 = \frac{3}{4}C$$

Solve for  $C$ :

$$12 = \frac{3}{4}C - \frac{2}{5}C = \frac{15C - 8C}{20} = \frac{7C}{20} \implies C = \frac{12 \times 20}{7} = \frac{240}{7} \text{ L}$$

**Answer:**