

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: B

2. The product of 0.03 and 0.007 is:

Solution: Multiply the two decimals:

$$0.03 \times 0.007 = 0.00021$$

Answer: C

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: A

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: C

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: A

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: 0.5×0.5 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: B

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: C

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: B

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: D