

Choose the correct option:

1. The fraction equivalent to $\frac{45}{81}$ is
 - (a) $\frac{90}{243}$
 - (b) $\frac{15}{9}$
 - (c) $\frac{5}{27}$
 - (d) $\frac{5}{9}$
2. The fraction whose numerator is the smallest odd prime number and denominator is the smallest composite number is
 - (a) $\frac{3}{4}$
 - (b) $\frac{2}{4}$
 - (c) $\frac{4}{3}$
 - (d) $\frac{4}{2}$
3. Which of the following is an improper fraction
 - (a) $\frac{2}{3}$
 - (b) $\frac{3}{4}$
 - (c) $\frac{4}{5}$
 - (d) $\frac{5}{4}$
4. Which of the following is the difference between $\frac{7}{8}$ and $\frac{3}{8}$
 - (a) $\frac{4}{5}$
 - (b) $\frac{1}{2}$
 - (c) $\frac{3}{2}$
 - (d) $\frac{10}{5}$
5. Which of the following statements is false:
 - (a) $\frac{9}{16} = \frac{5}{9}$
 - (b) $\frac{6}{7} > \frac{3}{5}$
 - (c) $\frac{3}{4} < \frac{1}{2}$
 - (d) $\frac{1}{9} \neq \frac{1}{3}$

Fill in the blanks:

6. A proper fraction lies between 0 and _____
7. $13\frac{5}{8}$ is a fraction.
8. In two like fractions, the fraction having smaller numerator is _____

State true or false:

9. $\frac{2}{9}$ and $\frac{6}{27}$ are equivalent.
10. $5 - 1\frac{3}{4} = 4\frac{1}{4}$
11. Find the equivalent fraction of $\frac{3}{5}$ having
 - (a) Denominator 30
 - (b) Numerator 27
12. Replace \star with the correct number:
 - (a) $\frac{2}{3} = \frac{\star}{15}$
 - (b) $\frac{7}{18} = \frac{42}{\star}$
 - (c) $\frac{\star}{11} = \frac{70}{154}$
13. Compare the following pairs of fractions
 - (a) $\frac{5}{9}$ and $\frac{4}{5}$
 - (b) $\frac{9}{16}$ and $\frac{5}{9}$

14. Fill in the blanks with $>$, $<$ or $=$

(a) $\frac{5}{11} - \frac{3}{7}$ (b) $\frac{8}{15} - \frac{3}{5}$ (c) $\frac{11}{14} - \frac{29}{35}$

15. Arrange the following in ascending order

(a) $\frac{3}{4}, \frac{5}{12}, \frac{9}{16}$ (b) $\frac{7}{12}, \frac{11}{36}, \frac{37}{72}$

16. Arrange the following in descending order

(a) $\frac{5}{12}, \frac{9}{16}, \frac{3}{4}$ (b) $\frac{7}{8}, \frac{15}{6}, \frac{5}{6}$

17. Work out the following:

(a) $3\frac{2}{7} - 1\frac{4}{7}$ (b) $\frac{2}{3} + \frac{3}{4}$ (c) $\frac{5}{7} - \frac{4}{9}$ (d) $1\frac{4}{9} - 3\frac{5}{12}$

18. Simplify:

(a) $3\frac{2}{9} + 2\frac{1}{3} + 2\frac{7}{12}$ (b) $1\frac{3}{25} + \frac{7}{20} - \frac{2}{5}$ (c) $3 - 1\frac{1}{6} - \frac{7}{15}$

Case Based Question

19. One day a labourer earned $\text{₹ } 58\frac{1}{2}$. Out of this, he spent $\text{₹ } 18\frac{3}{4}$ on food and $\text{₹ } 6\frac{1}{5}$ on other needs.

How much money is left with him?

20. Jaidev takes $2\frac{2}{5}$ minutes to walk across the school ground. Rahul takes $2\frac{1}{4}$ minutes to do the same.

Who takes less time and by what fraction?