

CHAPTER-7 | Fraction

QUIZ
PART-16

1. A fraction is in simplest form when numerator and denominator have:

- A. the same value
- B. no common factor except 1
- C. even numbers only
- D. odd numbers only (B)

Explanation: A fraction is in simplest form when its numerator and denominator have no common factor except 1.

2. Another name for simplest form is:

- A. mixed form
- B. lowest terms
- C. improper form
- D. common form (C)

Explanation: The chapter says simplest form is also called lowest terms.

3. $17/51$ in lowest terms is:

- A. $1/3$
- B. $17/3$
- C. $3/17$
- D. $17/51$ (A)

Explanation: Divide numerator and denominator by 17: $17/51 = 1/3$.

4. $64/144$ in lowest terms is:

- A. $8/18$
- B. $4/9$
- C. $16/36$
- D. $2/3$ (B)

Explanation: Divide both by 16: $64/144 = 4/9$.

5. $126/147$ in lowest terms is:

- A. $7/8$
- B. $6/7$
- C. $3/4$
- D. $14/21$ (B)

Explanation: Divide both by 21: $126/147 = 6/7$.

6. Which fraction is already in simplest form?

- A. $4/8$
- B. $6/9$
- C. $6/7$
- D. $10/15$ (C)

Explanation: 6 and 7 have no common factor except 1, so $6/7$ is already in simplest form.

7. The common factor used to simplify $17/51$ is:

- A. 3
- B. 17
- C. 51
- D. 2 (B)

Explanation: Both 17 and 51 are divisible by 17.

8. The common factor used to simplify $126/147$ is:

- A. 7
- B. 14
- C. 21
- D. 42 (C)

Explanation: $126 \div 21 = 6$ and $147 \div 21 = 7$.

9. Which fraction is equal to $64/144$ in simplest form?

- A. $8/9$
- B. $4/9$
- C. $9/4$
- D. $16/9$ (B)

Explanation: $64/144$ reduces to $4/9$.

10. To express a fraction in lowest terms, we:

- A. add numerator and denominator
- B. subtract numerator and denominator
- C. divide both by a common factor
- D. multiply both by a common factor (C)

Explanation: We simplify a fraction by dividing numerator and denominator by a common factor.