

CBSE CLASS 4 MATHS – FRACTIONS

Worksheet 2: Equivalent Fractions and Simplification*Practice worksheet with answer key*

Name: _____

Date: _____

Remember: Equivalent fractions look different but have the same value, e.g. $\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$.
Multiply OR divide the numerator and denominator by the SAME number to get an equivalent fraction.

A fraction is in simplest form when 1 is the only common factor of its numerator and denominator.

Section A: Multiple Choice Questions*Choose the correct option and write its letter.*

1. Which fraction is equivalent to $\frac{1}{2}$?
(a) $\frac{2}{3}$ (b) $\frac{2}{4}$ (c) $\frac{1}{4}$ (d) $\frac{3}{4}$
2. $\frac{2}{3} = \frac{?}{6}$. The missing number is:
(a) 3 (b) 6 (c) 4 (d) 2
3. Which fraction is equivalent to $\frac{3}{4}$?
(a) $\frac{6}{8}$ (b) $\frac{3}{8}$ (c) $\frac{4}{6}$ (d) $\frac{6}{4}$
4. The simplest form of $\frac{4}{8}$ is:
(a) $\frac{2}{4}$ (b) $\frac{4}{8}$ (c) $\frac{1}{4}$ (d) $\frac{1}{2}$
5. The simplest form of $\frac{6}{9}$ is:
(a) $\frac{2}{3}$ (b) $\frac{3}{6}$ (c) $\frac{1}{3}$ (d) $\frac{3}{2}$
6. To find an equivalent fraction, we multiply the numerator and the denominator by:
(a) different numbers
(b) only the numerator
(c) the same number
(d) only the denominator
7. Which pair of fractions is equivalent?
(a) $\frac{1}{3}$ and $\frac{2}{5}$ (b) $\frac{2}{5}$ and $\frac{4}{10}$ (c) $\frac{3}{4}$ and $\frac{3}{8}$ (d) $\frac{1}{2}$ and $\frac{2}{3}$
8. The simplest form of $\frac{10}{15}$ is:
(a) $\frac{5}{10}$ (b) $\frac{1}{3}$ (c) $\frac{5}{3}$ (d) $\frac{2}{3}$
9. $\frac{5}{6} = \frac{?}{24}$. The missing number is:
(a) 20 (b) 15 (c) 18 (d) 25
10. Which fraction is already in its simplest form?
(a) $\frac{4}{6}$ (b) $\frac{5}{10}$ (c) $\frac{3}{7}$ (d) $\frac{6}{8}$

Section B: Fill in the Blanks

Write the correct answer in the blank.

1. $1/3 = ?/9$. The missing number is _____.
2. $3/5 = 9/?$. The missing number is _____.
3. The simplest form of $8/12$ is _____.
4. $2/7 = 4/?$. The missing number is _____.
5. Fractions that have the same value are called _____ fractions.
6. The simplest form of $12/16$ is _____.
7. $5/10 = ?/2$. The missing number is _____.
8. A fraction is in simplest form when the HCF of its numerator and denominator is _____.
9. $6/8 = ?/4$. The missing number is _____.
10. The simplest form of $10/25$ is _____.

Section C: True or False

Write True or False.

1. $1/2$ and $3/6$ are equivalent fractions. (True / False)
2. $2/3$ and $3/4$ are equivalent fractions. (True / False)
3. Multiplying only the numerator gives an equivalent fraction. (True / False)
4. The simplest form of $6/12$ is $1/2$. (True / False)
5. $4/5$ is in its simplest form. (True / False)
6. Equivalent fractions have the same value even though they look different. (True / False)
7. The simplest form of $3/9$ is $1/3$. (True / False)
8. $5/8 = 10/12$. (True / False)
9. Dividing the numerator and denominator by the same common factor gives an equivalent fraction. (True / False)
10. The simplest form of $8/10$ is $8/5$. (True / False)

Section D: Match the Following

Match Column A with Column B. Write the letter of the correct answer next to each number.

Column A	Column B
1. $1/2 = ?$ Ans: _____	A. $2/5$
2. $2/3 = ?$ Ans: _____	B. $1/5$
3. $3/5 = ?$ Ans: _____	C. $3/6$
4. $1/4 = ?$ Ans: _____	D. $7/8$
5. Simplest form of $4/12$ Ans: _____	E. $1/3$
6. Simplest form of $10/20$ Ans: _____	F. $2/8$
7. Simplest form of $6/15$ Ans: _____	G. $3/4$
8. Simplest form of $9/12$ Ans: _____	H. $6/10$
9. Simplest form of $14/16$ Ans: _____	I. $8/12$
10. Simplest form of $5/25$ Ans: _____	J. $1/2$

Answer Key – Worksheet 2: Equivalent Fractions and Simplification

Section A: Multiple Choice Questions

1. (b) $\frac{2}{4}$
2. (c) 4
3. (a) $\frac{6}{8}$
4. (d) $\frac{1}{2}$
5. (a) $\frac{2}{3}$
6. (c) the same number
7. (b) $\frac{2}{5}$ and $\frac{4}{10}$
8. (d) $\frac{2}{3}$
9. (a) 20
10. (c) $\frac{3}{7}$

Section B: Fill in the Blanks

1. 3
2. 15
3. $\frac{2}{3}$
4. 14
5. equivalent
6. $\frac{3}{4}$
7. 1
8. 1
9. 3
10. $\frac{2}{5}$

Section C: True or False

1. **True**
2. **False** – $\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$, but $\frac{3}{4}$ has a different value.
3. **False** – We must multiply both numerator and denominator by the same number.
4. **True**
5. **True**
6. **True**
7. **True**
8. **False** – $\frac{5}{8} = \frac{10}{16}$.
9. **True**
10. **False** – Divide both by 2: $\frac{8}{10} = \frac{4}{5}$.

Section D: Match the Following

- | | |
|--------------------------|--------------------------|
| 1 → C ($\frac{3}{6}$) | 6 → J ($\frac{1}{2}$) |
| 2 → I ($\frac{8}{12}$) | 7 → A ($\frac{2}{5}$) |
| 3 → H ($\frac{6}{10}$) | 8 → G ($\frac{3}{4}$) |
| 4 → F ($\frac{2}{8}$) | 9 → D ($\frac{7}{8}$) |
| 5 → E ($\frac{1}{3}$) | 10 → B ($\frac{1}{5}$) |