Equivalent Fractions

A. Choose the Correct Answer:

1. Which of the following fractions is equivalent to $\frac{1}{2}$?

a) $\frac{2}{4}$ b) $\frac{2}{3}$

c) $\frac{3}{5}$ d) $\frac{1}{3}$

2. Which of the following is equal to $\frac{3}{6}$?

a) $\frac{2}{3}$ b) $\frac{1}{2}$

c) $\frac{3}{4}$ d) $\frac{1}{4}$

3. To find an equivalent fraction, we can:

a) Multiply both numerator and denominator by the same number

b) Add the numerator and denominator

c) Only multiply the numerator

d) Only multiply the denominator

4. Which fraction is equal to $\frac{4}{8}$?

a) $\frac{1}{2}$ b) $\frac{2}{8}$

c) $\frac{3}{4}$ d) $\frac{5}{6}$

5. What number should be multiplied to both 3 and 5 to get an equivalent fraction of $\frac{3}{5}$?

a) 0 b) 1

c) 2 d) 5

B. Write the Missing Terms to Complete the Sentences:

1. Two or more fractions that represent the same value are called _____ fractions.
2. The fraction $\frac{2}{3}$ is equivalent to _____ $\frac{\dots}{9}$.
3. $\frac{5}{10}$ is equivalent to _____ $\frac{\dots}{2}$.
4. Multiplying the numerator and denominator of $\frac{1}{4}$ by 3 gives _____.
5. $\frac{6}{8}$ and $\frac{3}{4}$ are _____ fractions.

C. Figure out the answers to these questions:

1. Draw two equivalent fractions on a number line and label them.
2. Write 3 fractions that are equivalent to $\frac{2}{3}$.
3. Find an equivalent fraction of $\frac{3}{5}$ with denominator 20.
4. Explain how to check if two fractions are equivalent.
5. Complete the pattern of equivalent fractions: $\frac{1}{3}, \frac{2}{6}$, ___, ___, ___

D. Mark each sentence with a True (✓) or False (✗):

1. $\frac{4}{6}$ and $\frac{2}{3}$ are equivalent fractions. ☐
2. Multiplying both numerator and denominator by different numbers gives an equivalent fraction. ☐
3. Equivalent fractions always have the same denominators. ☐
4. $\frac{7}{14}$ is equal to $\frac{1}{2}$. ☐
5. Dividing the numerator and denominator by the same number does not change the value of a fraction. ☐

E. Challenge yourself with these questions:

1. Write two equivalent fractions of $\frac{4}{5}$ using multiplication.
2. Use a visual model (rectangle or circle) to show that $\frac{2}{4}$ and $\frac{1}{2}$ are equal.
3. Find the missing number: $\frac{5}{6} = \frac{10}{\ldots}$
4. Explain why $\frac{3}{4}$ is not equal to $\frac{2}{5}$.
5. Write a word problem that involves comparing two equivalent fractions.
6. Create a matching game where students have to pair equivalent fractions.

F. Verify whether the following pairs of fractions are equivalent.

1. $\frac{1}{8}, \frac{7}{54}$ _____
2. $\frac{3}{2}, \frac{15}{10}$ _____
3. $\frac{5}{25}, \frac{6}{30}$ _____
4. $\frac{1}{3} = \frac{3}{6}$ _____

H. Reduce the following into lowest terms.

1. $\frac{32}{56}$ _____
2. $\frac{39}{56}$ _____
3. $\frac{27}{63}$ _____
4. $\frac{56}{64}$ _____