Multiplication of Fractions

A. Choose the correct answer:

1. What is $\frac{1}{2} \times \frac{1}{2}$?

a) $\frac{1}{2}$ b) $\frac{1}{4}$

c) $\frac{2}{2}$ d) 1

2. What is $\frac{2}{3} \times \frac{3}{4}$?

a) $\frac{6}{12}$ b) $\frac{5}{7}$

c) $\frac{1}{4}$ d) $\frac{2}{6}$

3. What is the result of multiplying a fraction by 1?

a) 0 b) The same fraction

c) 1 d) The reciprocal

4. Which is correct for $4 \times \frac{1}{5}$?

a) $\frac{4}{5}$ b) $\frac{5}{4}$

c) $\frac{1}{4}$ d) $\frac{1}{20}$

5. What is $\frac{3}{5} \times 2$?

a) $\frac{3}{10}$ b) $\frac{6}{5}$

c) $1\frac{2}{5}$ d) Both b and c

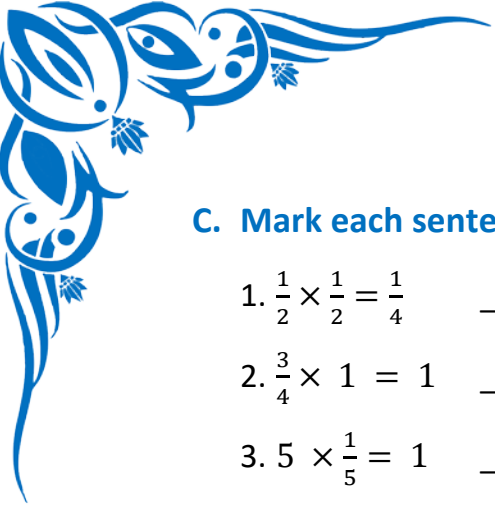**B. Write the Missing Terms to Complete the Sentences:**

1. $\frac{1}{4} \times \frac{1}{2} =$ _____

2. $\frac{3}{5} \times 1 =$ _____

3. $5 \times \frac{2}{3} =$ _____

4. $\frac{2}{3} \times \frac{3}{4} =$ _____

5. $\frac{7}{8} \times 2 =$ _____

C. Mark each sentence with a True (✔) or False (✗):

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ _____

2. $\frac{3}{4} \times 1 = 1$ _____

3. $5 \times \frac{1}{5} = 1$ _____

4. To multiply two fractions, we multiply the numerators and the denominators _____

5. $\frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$ _____

D. Figure out the answers to these questions:

1. Multiply $\frac{2}{3}$ by 4 and write your answer in simplest form

2. Find the product: $\frac{5}{6} \times \frac{1}{2}$

3. A rope is $\frac{3}{4}$ m long. What is the length of 3 such ropes?

4. Multiply: $1\frac{1}{2} \times \frac{2}{5}$

5. If one notebook weighs $\frac{2}{3}$ kg, what is the total weight of 6 notebooks?

E. Challenge yourself with these questions:

1. Multiply $3\frac{1}{2}$ by $\frac{2}{3}$

2. A tank is $\frac{2}{3}$ full. If you triple the amount of water, how full is the tank now?

3. Multiply: $\frac{7}{10} \times 4$

4. What is the area of a rectangle with length $\frac{5}{6}$ m and width $\frac{3}{4}$ m?

5. Multiply $\frac{9}{10}$ by $\frac{3}{5}$ and write your answer in lowest terms.