Problems on Multiplication

A. Choose the correct answer:

1. If one ribbon is $\frac{2}{3}$ m long, what is the total length of 5 such ribbons?

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

c) $\frac{6}{3}m$ d) $\frac{7}{3}m$

2. A chocolate bar weighs $\frac{3}{4}kg$. What is the weight of 4 such bars?

a) $\frac{12}{4}kg$ b) $\frac{3}{4}kg$

c) $\frac{7}{4}kg$ d) 3 kg

3. A book costs ₹$3\frac{1}{2}$. What is the total cost of 3 books?

a) ₹10 b) ₹$10\frac{1}{2}$

c) ₹9 d) ₹11

4. A tank holds $\frac{2}{5}$ liter of water. How much do 6 tanks hold?

a) $\frac{10}{5}$ liter b) $\frac{12}{5}$ liter

c) $\frac{8}{5}$ liter d) $\frac{6}{5}$ liter

5. One pencil is $\frac{3}{10}$ m long. What is the length of 9 pencils?

a) $\frac{27}{10}$ m b) $\frac{30}{10}$ m

c) $\frac{9}{10}$ m d) 3 m

B. Write the Missing Terms to Complete the Sentences:

1. A pipe is $\frac{1}{2}$ m long. 8 such pipes will be _____ m long

2. A packet weighs $\frac{5}{6}$ kg. The weight of 2 packets is _____ kg

3. $\frac{3}{4}$ of a meter × 3 = _____ meters

4. 7 × $\frac{2}{3}$ = _____

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

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

1. $5 \times \frac{1}{3} = \frac{5}{3}$ _____
2. $\frac{3}{4} \times 4 = \frac{12}{4}$ _____
3. $2 \times 2\frac{1}{2} = 5$ _____
4. Multiplying a fraction by a whole number means repeated addition _____
5. $\frac{1}{4} \times 8 = 2$ _____

D. Figure out the answers to these questions:

1. A page has $\frac{2}{3}$ of a picture printed on it. How much picture is printed on 9 pages?
2. A bucket fills $\frac{1}{4}$ of a tank. How much will 5 buckets fill?
3. Multiply $3\frac{1}{2}$ by 2 and explain your steps
4. A stick is $\frac{3}{5}$ m long. How long are 6 such sticks?
5. A chocolate costs ₹$2\frac{1}{4}$. What is the total cost of 4 such chocolates?

E. Challenge yourself with these questions:

1. A water tank holds $\frac{3}{5}$ liter of water. What is the total water in 7 such tanks?
2. Multiply: $4 \times 1\frac{1}{4}$
3. Each bag weighs $\frac{2}{3}$ kg. What is the total weight of 5 bags?
4. A wall is $\frac{6}{7}$ painted. If there are 3 such walls, how much is painted in total?
5. If $\frac{1}{2}$ liter of juice is served to each guest, how much juice is needed for 12 guests?