

Assignment 5

1.

A tank is filled with water. In the first hour, $\frac{3}{8}$ of the tank is filled. In the next hour, 0.375 of the remaining tank is filled.

What fraction of the tank is still empty?

2.

Evaluate:

$$\frac{5}{6} - \left[\frac{3}{4} - \left(\frac{7}{12} - 0.25 \right) \right]$$

3.

A shopkeeper gives a discount of 12.5% on an item priced at ₹960. After the discount, GST of 18% is applied.

Find the final price (in decimals).

4.

Find the value of:

$$\left(\frac{2}{3} \div 0.4 \right) \times \left(1.5 - \frac{3}{5} \right)$$

5.

A number is multiplied by $\frac{4}{5}$ and then increased by 0.8, resulting in 3.2.

Find the original number.

6.

Three fractions are:

$$\frac{2}{3}, \frac{5}{6}, \frac{7}{9}$$

Convert them to decimals and arrange them in **descending order**.

7.

A piece of ribbon is 5.75 meters long. It is cut into pieces of length $\frac{3}{8}$ meter each.

How many complete pieces can be cut, and what length remains?

8.

Evaluate:

$$\left(2.4 \times \frac{5}{6} \right) + \left(\frac{7}{8} \div 0.5 \right)$$