

Assignment 1

Section A: Basic

1. Add:
 - a) $3.5 + 2.4$
 - b) $7.25 + 1.5$
2. Multiply:
 - a) 4.2×3
 - b) 0.6×5
3. Divide:
 - a) $8.4 \div 2$
 - b) $9.6 \div 3$

Section B: Moderate

1. Add:
 - a) $12.35 + 4.6 + 0.75$
 - b) $7.08 + 3.9 + 2.12$
2. Multiply:
 - a) 2.5×1.2
 - b) 0.75×0.4
3. Divide:
 - a) $6.4 \div 0.8$
 - b) $9.45 \div 1.5$

Section C: Application-Based

1. A ribbon is 2.75 m long. Another ribbon is 1.5 m long.
What is the total length?
2. A packet weighs 0.85 kg. What is the weight of 6 such packets?
3. A shopkeeper divides 5.6 kg of rice equally into 4 packets.
How much rice is in each packet?

Section D: Higher Order Thinking

1. Find the product:
 3.45×2.6
2. A car travels 12.5 km in one litre of petrol.
How far will it travel in 3.2 litres?
3. Divide 15.75 by 0.5 and explain the method.

Section E: Challenge Questions

Find the value:

1. $(2.5 \times 3.6) + (4.8 \div 0.6)$
2. A piece of cloth of length 8.4 m is cut into pieces of 0.7 m each.

3. How many pieces are obtained?
4. The sum of two numbers is 7.5. One number is 3.85.
Find the other number.

Hard level

Section A: Complex Calculations

Evaluate:

1. $3.75 \times 2.4 + 6.48 \div 0.6 - 1.25$
2. Find the value:
 $(4.8 \times 0.25) + (9.6 \div 0.8) - (3.2 \times 1.5)$
3. Simplify:
 $7.5 \times (2.4 + 0.6) \div 1.5$

Section B: Multi-Step Problems

1. A tank contains 12.75 litres of water. 3.5 litres is removed and the remaining is equally filled into 2.5 containers. How much water is in each container?
2. A shopkeeper buys 3.75 kg of sugar at ₹42.8 per kg. Find the total cost.
3. A train travels 0.85 km in one minute. How far will it travel in 2.75 hours?

Section C: Decimal Reasoning

1. Find the missing number:
2. $4.8 \times \underline{\quad} = 3.84$
3. Find the number which when divided by 0.25 gives 18.6
4. If $(x \times 2.5) = 7.75$, find x

Section D: Application + Logic

1. A 9.6 m rope is cut into pieces each of length 0.75 m. How many full pieces can be made and what length is left?
2. A bottle contains 1.25 L of juice. 0.35 L is consumed daily. After how many days will the juice be finished?
3. A rectangular field has length 12.5 m and breadth 3.75 m. Find its area.

Section E: Challenge + Mixed Concepts

1. Evaluate:
 $(6.4 \div 0.8) \times (3.5 - 1.25) + 2.16$
2. The product of two decimals is 5.04. One number is 2.4. Find the other number.
3. A number when multiplied by 0.6 and then divided by 0.3 gives 18. Find the number.