

Q1

Samuel received chocolates for his birthday. He decided to share it with his family.

He keeps $\frac{1}{3}$ rd of the chocolates for himself.

He gives $\frac{1}{4}$ th of what is left to his sister Sarah.

He gives the remaining 12 chocolates (except the ones which he kept for himself) to his brother.

How many chocolates had Samuel received in total before he shared it?

- a) 20**
- b) 22**
- c) 24**
- d) None of these**

Q2

A bus started its journey from Mumbai.

$\frac{1}{4}$ th of the passengers got off the bus in Pune and 35 new passengers got on the bus.

Half of the passengers got off the bus in Goa with no new passengers getting on the bus.

When the bus left from Goa, the total number of passengers was 85.

How many passengers boarded the bus from Mumbai?

- a) 135**
- b) 170**
- c) 180**
- d) Cannot be Determined**

Q3

Which of the following statements is/are sufficient to answer the given question?

Question: What fraction of the initial liquid remains in the vessel after Day 2?

Statement 1: The vessel originally contained 100 litres of liquid.

Statement 2: On Day 1, the amount of liquid that evaporates is equal to half of the quantity that would remain if one-third of the initial liquid were removed.

Statement 3: On Day 2, the liquid left in the vessel becomes one-fourth of the quantity that was present at the beginning of Day 2.

- a) Statement 3 alone is sufficient**
- b) Both Statement 1 and Statement 2 are necessarily required**
- c) Both Statement 2 and Statement 3 are necessarily required**
- d) Question cannot be answered even if all the Statements are used**