

**Started on** Wednesday, 19 March 2025, 11:00 AM**State** Finished**Completed on** Wednesday, 19 March 2025, 11:05 AM**Time taken** 4 mins 50 secs**Marks** 4.00/5.00**Grade** 80.00 out of 100.00**Question 1**

Complete

Mark 1.00 out of 1.00



The company generates revenue from **Product A, Product B, Product C, Product D, and Other Products**. The chart shows the percentage share of each product in total revenue.

If the company's total revenue for the year was **\$500 million**, how much revenue did **Product B** generate?

- ☐ a. \$100 million
- ☐ b. \$150 million
- ☐ c. \$175 million
- ☒ d. \$125 million

**Question 2**

Complete

Mark 0.00 out of 1.00

A **cloud-based request handling system** operates using a **stack implemented with two queues**. The system must support **push operations in  $O(1)$  time**.

How many enqueue/dequeue operations are required to support the following sequence of stack operations?

push(10)

push(20)

pop()

push(30)

push(40)

pop()

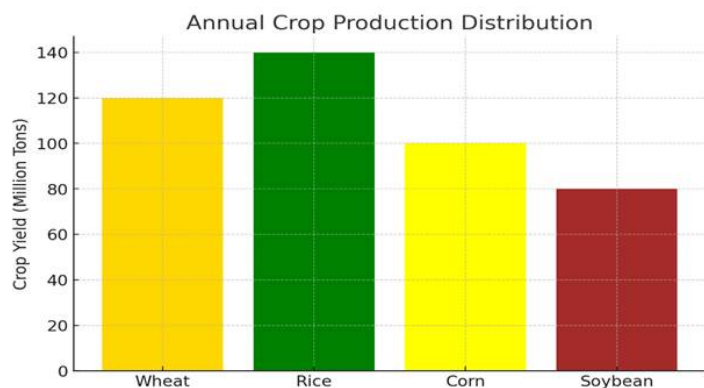
- ☒ a. 7 enqueue 5 dequeue
- ☐ b. 7 enqueue 6 dequeue
- ☐ c. 8 enqueue 6 dequeue
- ☐ d. 8 enqueue 5 dequeue

**Question 3**

Complete

Mark 1.00 out of 1.00

The question is based on the given bar chart that shows the **annual crop production** in million tons for **Wheat, Rice, Corn, and Soybean**.



If a **drought** affected **Corn production** reducing its yield by **20%**, what would be the new production value for Corn?

- ☐ a. 110 million tons
- ☐ b. 90 million tons
- ☒ c. 80 million tons
- ☐ d. 100 million tons

**Question 4**

Complete

Mark 1.00 out of 1.00

Three players, **X, Y, and Z**, participated in a football league. The ratio of the number of goals by **X to Y** and the ratio of the number of goals by **Y to Z** is **each 4:3**.

They scored a **total of 400 goals** in the season.

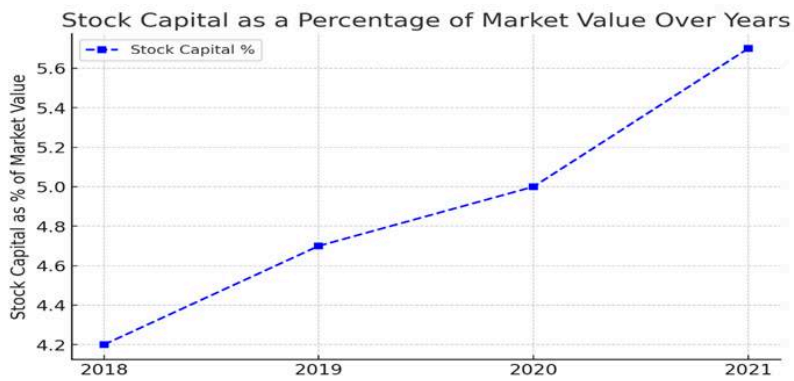
How many goals did **Player X** score?

- ☐ a. 128
- ☒ b. 172
- ☐ c. 144
- ☐ d. 160

**Question 5**

Complete

Mark 1.00 out of 1.00



A company's financial team is analyzing the **stock capital as a percentage of total market value** over the past four years.

Year	2018	2019	2020	2021
Stock Capital (\$M)	50	70	90	120
Market Value (\$M)	1200	1500	1800	2100

In which year was the **stock capital as a percentage of market value** the highest?

- ☐ a. 2018
- ☐ b. 2019
- ☒ c. 2021
- ☐ d. 2020