

# OPM Practice Exam Questions & Answers 2024/2025

SUMSENG Electronics began to provide 512GB flash memory chips in Aug 2016. Based on the daily sales data of the first 60 days of sales, demand growth has an upward linear trend with intercept 100 and slope 10. That is, on Day 61 the expected demand is 710 chips. It is expected that the demand will keep growing with the same rate until the first quarter of 2016. Estimate the expected demand on Day 180. - ANSWERS  $100 + 10 \cdot 180 = 1900$

SUMSENG Electronics began to provide 512GB flash memory chips in Aug 2016. Based on the daily sales data of the first 60 days of sales, demand growth has a upward linear trend with intercept 100 and slope 10. That is, on Day 61 the expected demand is 710 chips. It is expected that the demand will keep growing with the same rate until Day 180, and then will remain steady afterwards with no significant upward or downward trend. Estimate the expected demand on Day 200. - ANSWERS  $100 + 10 \cdot 180 = 1900$

Bigfield Labs has a bottleneck station that has one machine working on a NON-batched process. It takes this machine on average 5.3 hours to process a job. That is, the capacity of Bigfield Labs is 4.53 jobs per day. Bigfield decides to buy a second (exactly the same) machine at this station; however this station remains as the bottleneck process. A job arriving at this station will be processed by only one of the two identical parallel machines and can be processed by any one of them that is available. What is Bigfield's capacity with two identical parallel machines that can perform two jobs at the same time at this bottleneck station? (Hint: buying a second machine is doubling the capacity.) - ANSWERS 9.06

Bigfield Labs' first process is performed at a bottleneck station that has one machine working on a NON-batched process. It takes this machine on average 5.3 hours to process a job. That is, the capacity of Bigfield Labs is 4.53 jobs per day. Starting in the next month, the expected (average) daily demand is 16 jobs per day. Obviously Bigfield does not have enough capacity. Bigfield needs to buy more (exactly the same) machines at this first station. What is the minimum number of machines Bigfield needs to have at this station in order for this station to have capacity > average demand? (Note that the capacity needs to be > average demand, not =. Think about why.) - ANSWERS 4

Bigfield Labs' first process is performed at a bottleneck station that has six identical machines working on a NON-batched process. A job can be taken by any one of the unoccupied machines and needs to be processed by only one of the machines at this station. It takes a machine on average 5.3 hours to process

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