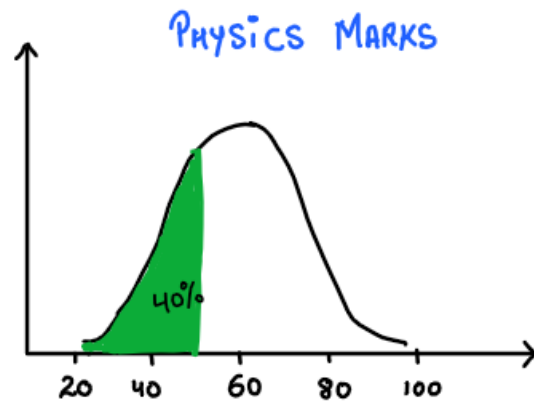


LESSON 6: NORMAL DISTRIBUTION

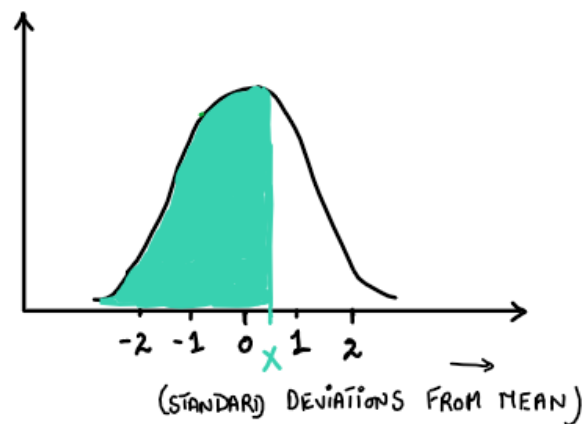
Q1:



IF WE SELECT A STUDENT AT RANDOM, WHAT IS THE PROBABILITY THAT HE HAS SCORED LESS THAN 50 MARKS?

Q2:

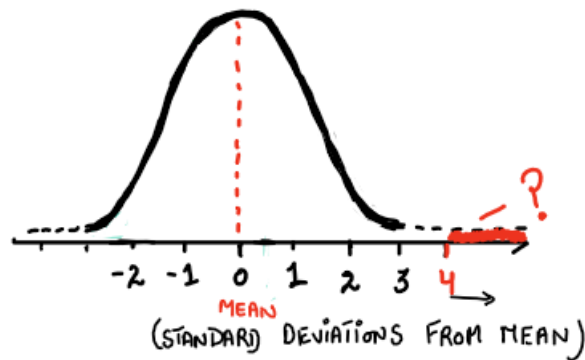
WHAT DOES THE AREA UNDER THE NORMAL DISTRIBUTION CURVE REPRESENTS?



Q3.

WHAT IS THE PROBABILITY OF RANDOMLY SELECTING A STUDENT WHO HAS SCORED 4 SD ABOVE THE MEAN?

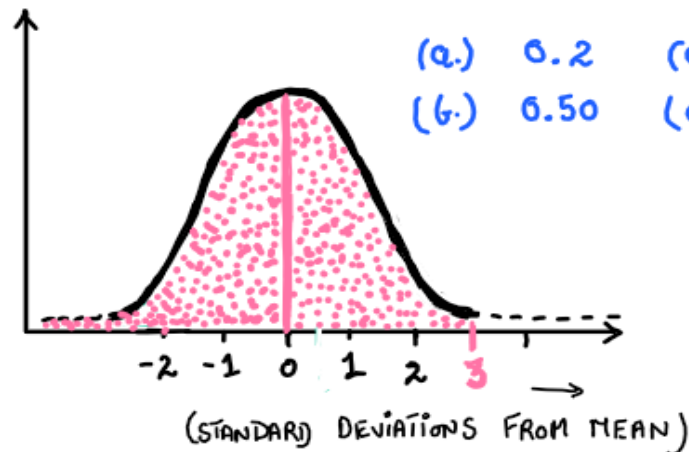
- (a.) 0.99 (b.) 0.2 (c.) 0.7 (d.) 0.001



Q4.

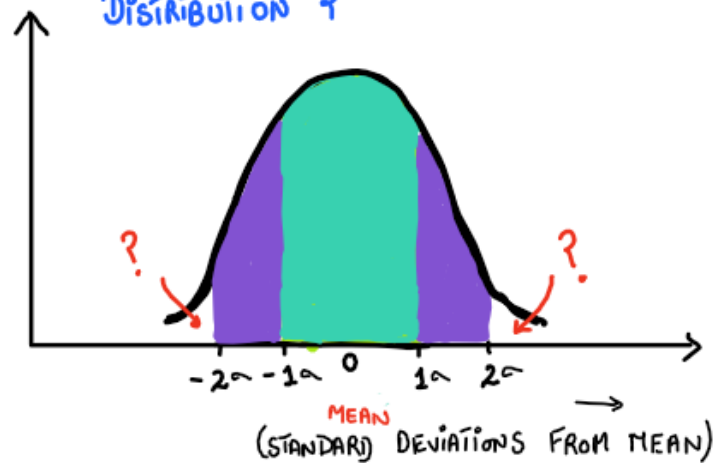
WHAT PROPORTION OF STUDENTS HAVE SCORED LESS THAN 3 SD ABOVE THE MEAN?

- (a.) 0.2 (c.) 0.05
(b.) 0.50 (d.) 0.99



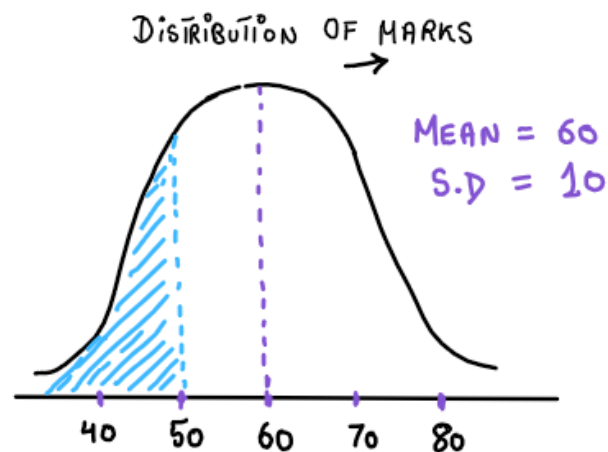
Q5.

WHAT PROPORTION OF DATA IS EITHER BELOW OR ABOVE THE 2 STANDARD DEVIATIONS FROM THE MEAN FOR A NORMAL DISTRIBUTION ?



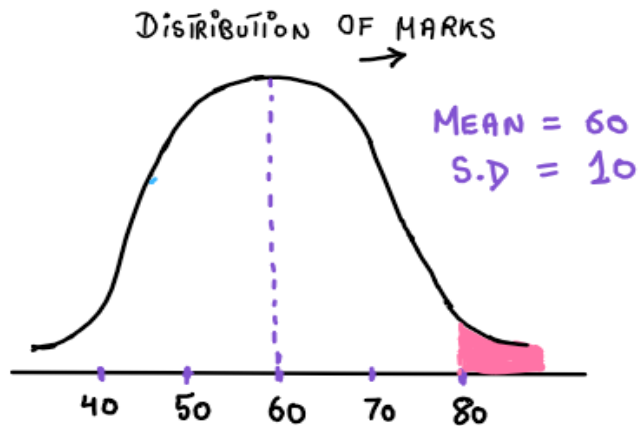
Q6.

WHAT PROPORTION OF STUDENTS HAVE SCORED LESS THAN 50 MARKS ?



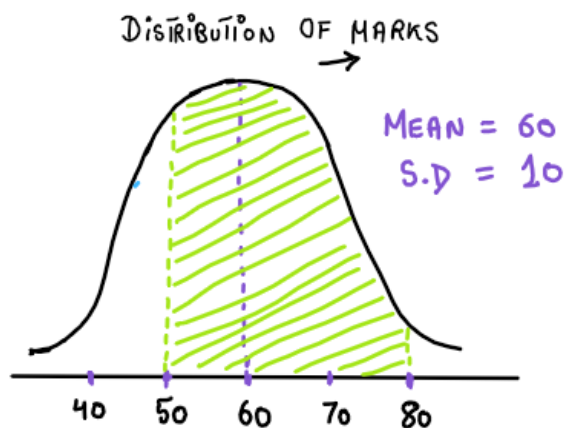
Q7.

WHAT PERCENTAGE OF STUDENTS SECURED MORE THAN 80 MARKS?



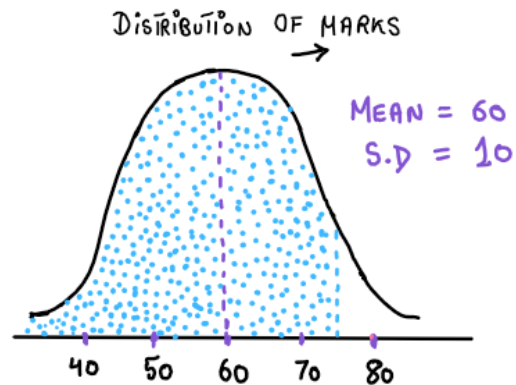
Q8.

WHAT PROPORTION OF STUDENTS SECURED MARKS BETWEEN 50 TO 80?



Q9.

WHAT PROPORTION OF STUDENTS HAVE SECURED LESS THAN 75 MARKS ?



<https://goo.gl/qnDQT8>

Q10.

THE DATA IN THE LINK SHOWS SALARY OF 10,000 COMPUTER ENGINEERING STUDENTS



<https://goo.gl/5cFe7Y>

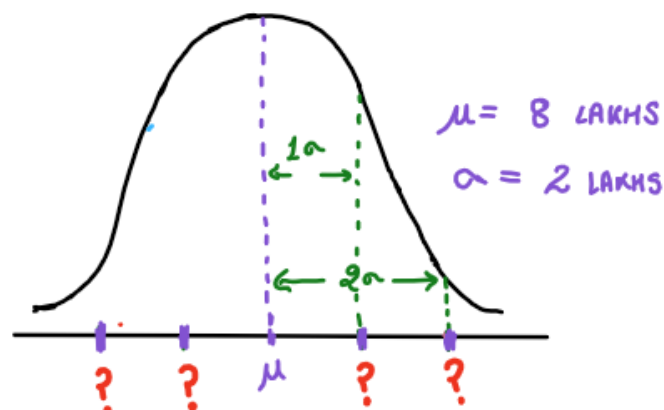
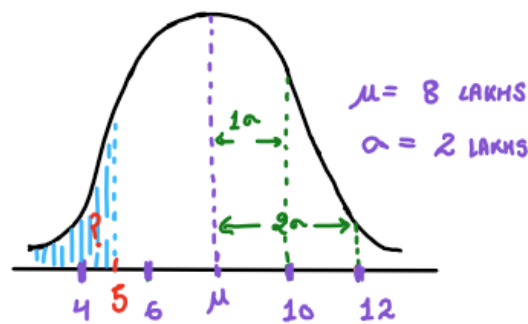
PART-I

FIND THE AVERAGE SALARY OF STUDENTS ?

PART-II

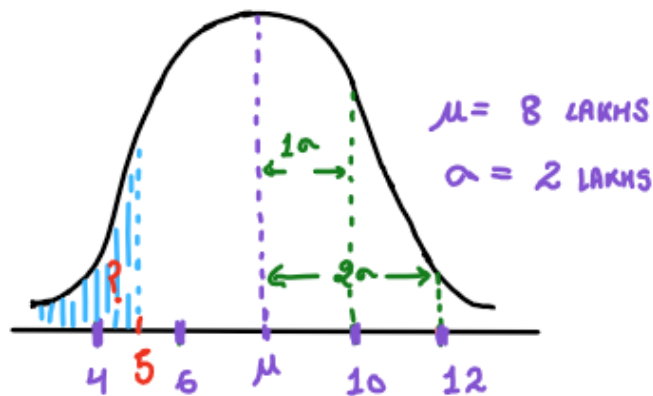
WHAT IS THE SAMPLE STANDARD DEVIATION?

PART-III



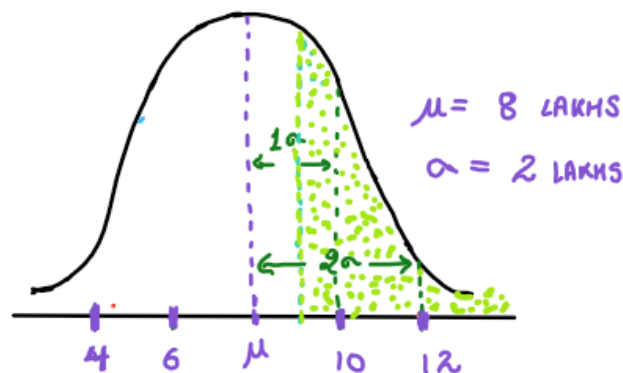
PART-IV

FIND THE PROPORTION OF STUDENTS WHO EARN LESS THAN 5 LAKHS ?



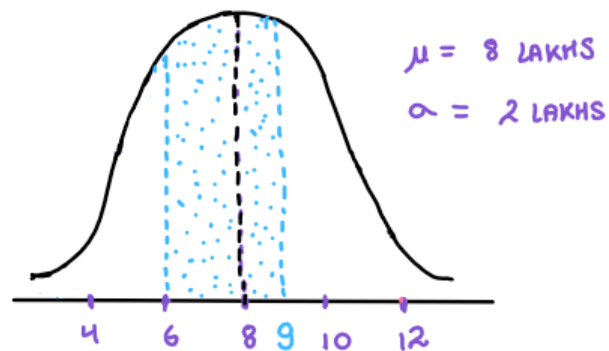
PART-V

WHAT PROPORTION OF STUDENTS EARN MORE THAN 9 LAKHS ?



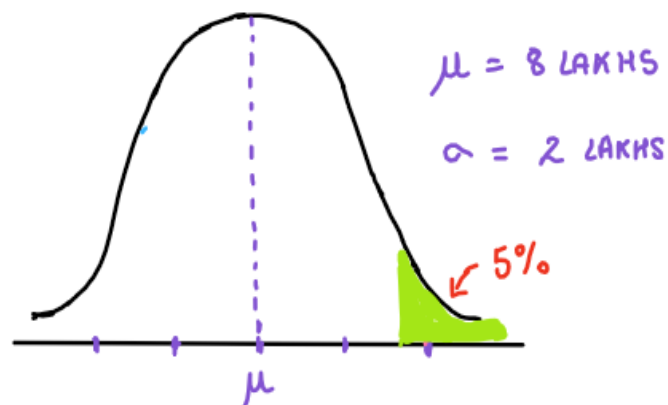
PART - VI

WHAT PROPORTION OF STUDENTS EARN SALARY BETWEEN 6-9 LAKHS ?




PART - VII


HOW MUCH MINIMUM SALARY ONE SHOULD EARN TO BE IN TOP 5% OF STUDENTS ?



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PART- VIII

WHAT SHOULD BE YOUR MINIMUM SALARY SO THAT YOU
EARN MORE THAN 80% OF STUDENTS ?

