

CONTINUE

01:59:46



Name: DEMO_QAB_NAME

CRN: DEMO_QAB

Quantitative Analysis for Business



Pre-Requisite Competencies

Quantitative Analysis for Business

INSTRUCTIONS

Carefully read the following instructions before attempting the test:

- | | |
|----|---|
| 1. | The total duration of the test is 2 hours . No specific time is allocated to individual questions, and questions may be attempted in any sequence. |
| 2. | All questions are compulsory. Each question carries 02 marks unless stated otherwise. |
| 3. | There is no negative marking. |
| 4. | The requirement of each question should be read carefully before selecting your answer. |
| 5. | Your answers are saved automatically when you navigate between |

CONTINUE

01:59:38



INSTRUCTIONS

Carefully read the following instructions before attempting the test:

1. The total duration of the test is **2 hours**. No specific time is allocated to individual questions, and questions may be attempted in any sequence.
2. All questions are compulsory. Each question carries **02 marks** unless stated otherwise.
3. There is no negative marking.
4. The requirement of each question should be read carefully before selecting your answer.
5. Your answers are saved automatically when you navigate between questions. You may also click **SAVE**, **NEXT**, or **BACK** to ensure your answer is saved.
6. You are not allowed to open or use any other application or website during the exam.
7. A calculator is available within the exam software. You may use an external calculator only if it is included in the list of permissible calculators issued by ICAP.
8. Mathematical tables will be available within the exam software. The use of any external mathematical tables is strictly prohibited.
9. A sheet will be provided for rough work. You must submit this rough work sheet to the invigilator after completing your exam. No additional sheets will be provided. A notepad is also present within the exam

CONTINUE

01:59:35



- 4. The requirement of each question should be read carefully before selecting your answer.
- 5. Your answers are saved automatically when you navigate between questions. You may also click **SAVE**, **NEXT**, or **BACK** to ensure your answer is saved.
- 6. You are not allowed to open or use any other application or website during the exam.
- 7. A calculator is available within the exam software. You may use an external calculator only if it is included in the list of permissible calculators issued by ICAP.
- 8. Mathematical tables will be available within the exam software. The use of any external mathematical tables is strictly prohibited.
- 9. A sheet will be provided for rough work. You must submit this rough work sheet to the invigilator after completing your exam. No additional sheets will be provided. A notepad is also present within the exam software for rough work.
- 10. Any workings made on the rough work sheet or in the notepad will not be considered for marking.
- 11. Discussion with any other student during the exam is strictly prohibited. If you have any confusion or queries, please contact the nearest invigilator or centre supervisor.

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Question: 1/50
Marks: 02

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Overview

1 2 3 4 5 6 7 8 9 10

01:59:27

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Saleem plans to invest Rs. 160,000 annually at the beginning of each year for 5 years in a scheme offering 14% interest compounded annually. What will be the future value of his investment at the end of the 5th year?

- | Selection | Option(s) |
|-----------------------|---------------|
| <input type="radio"/> | Rs. 1,057,617 |
| <input type="radio"/> | Rs. 1,133,740 |
| <input type="radio"/> | Rs. 1,205,681 |
| <input type="radio"/> | Rs. 1,225,000 |

Air: Poor Sunday

Search

2:29 am 19/12/2025

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Question: 2/50
Marks: 02

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Overview

1 2 3 4 5 6 7 8 9 10

01:59:20

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

A company intends to invest Rs. 6 million in a project that would yield returns of 10, 12, and 14 percent during the first three years, respectively. The company would also recover the original investment after three years. If the company's cost of capital is 9%, the NPV of this project would be:

Selection Option(s)

- Rs. 648,634
- Rs. 393,745
- Rs. 438,204
- Rs. 1,805,103

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Question: 3/50
Marks: 02

BACK NEXT SAVE END

Overview

1 2 3 4 5 6 7 8 9 10

01:59:12

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Rashid wants to obtain a bank loan. The following offers are available:

- Bank A: 14% nominal rate, compounded monthly
- Bank B: 14.5% nominal rate, compounded quarterly
- Bank C: 14.75% effective annual rate

Arrange the banks in order from lowest to highest effective annual interest rate.

Selection Option(s)

- Bank C → Bank A → Bank B
- Bank B → Bank A → Bank C
- Bank B → Bank C → Bank A
- Bank A → Bank B → Bank C

Air: Poor Sunday

Search

2:29 am 19/12/2025

Question: 4/50 Marks: 02 BACK NEXT SAVE END Overview 1 2 3 4 5 6 7 8 9 10 01:59:06 Quantitative Analysis for Business

The monthly payment necessary to pay off a loan of Rs. 8,000 at 18% per annum compounded monthly in two years is:

- | Selection | Option(s) |
|-----------------------|------------|
| <input type="radio"/> | Rs. 399.40 |
| <input type="radio"/> | Rs. 419.40 |
| <input type="radio"/> | Rs. 389.40 |
| <input type="radio"/> | Rs. 409.40 |

If the rate of interest is 9% per annum compounded monthly, what is the present value of a perpetuity that pays Rs. 3,000 per month indefinitely?

- | Selection | Option(s) |
|-----------------------|-------------|
| <input type="radio"/> | Rs. 400,000 |
| <input type="radio"/> | Rs. 390,000 |
| <input type="radio"/> | Rs. 410,000 |
| <input type="radio"/> | Rs. 425,000 |

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Question: 6/50
Marks: 02

BACK NEXT SAVE END

Overview

2 3 4 5 6 7 8 9 10 11

01:58:54

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Nisar had taken Rs. 900,000 from his office at 13.5% simple interest for a period of 5 years and 5 months. The principal amount was paid at the expiry of the loan period.

What was the total amount of interest payable over the loan period?

Selection Option(s)

- Rs. 658,125
- Rs. 530,625
- Rs. 545,000
- Rs. 675,000

Air: Poor Sunday

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Question: 7/50
Marks: 02

BACK NEXT SAVE END

Overview

3 4 5 6 7 8 9 10 11 12

01:58:49

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

A project costing Rs. 2 million is expected to yield Rs. 300,000, Rs. 400,000, and Rs. 1,900,000 at the end of each of the next three years, respectively. The IRR of the project is:

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 11.15% |
| <input type="radio"/> | 10.66% |
| <input type="radio"/> | 10.18% |
| <input type="radio"/> | 11.51% |

Air: Poor Sunday

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Question: 8/50
Marks: 02
Name: DEMO_QAB_NAME

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Overview
4 5 6 7 8 9 10 11 12 13

CRN: DEMO_QAB

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Quantitative Analysis for Business

Sohail receives interest from Fast Bank Limited (FBL) at 14% per annum compounded semi-annually. Slow Bank Limited (SBL) offers the same nominal annual rate but compounds quarterly.

If Sohail invests Re. 1 for 10 years, what additional amount will he earn under the SBL scheme as compared with FBL?

Selection Option(s)

- 0.09x
- 0.05x
- 0.07x
- 0.10x

Following are the cash flows of a particular project:

Year	Cash flow amount (Rs. in '000)	Type
0	300	Cash Out Flow
1	75	Cash In Flow
2	125	Cash In Flow
3	150	Cash In Flow

Calculate the Payback Period.

- Selection Option(s)
- 2.25 Years
 - 2.5 Years
 - 2 Years
 - 2.67 years

Question: 10/50
Marks: 02

BACK NEXT SAVE END

Overview

6 7 8 9 10 11 12 13 14 15

01:58:34

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

A person borrowed Rs. 20,000 from a bank at a simple interest rate of 12 percent per annum. In how many years will he owe interest of Rs. 3,600?

Selection Option(s)

- 1.45 years
- 1.50 years
- 1.60 years
- 1.55 years

Which **TWO** of the following options are correct?

To _____ the present value of a project, the discount rate should be adjusted _____.

Selection Option(s)

- decrease; downward
- increase; upward
- increase; downward
- decrease; upward

Question: 12/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business

BACK NEXT SAVE END

Overview

8 9 10 11 12 13 14 15 16 17

01:58:24

A person deposits Rs. 30,000 every six months into a retirement account. The account pays an annual interest rate of 12 percent compounded semi-annually. The value of the account after 15 years would be:

Selection Option(s)

- Rs. 2,351,746
- Rs. 2,371,746
- Rs. 2,331,746
- Rs. 2,341,746

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Question: 13/50
Marks: 02

BACK NEXT SAVE END

Overview

9 10 11 12 13 14 15 16 17 18

01:58:18

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Sadiq earned a score of 940 on a general knowledge test. The mean test score was 850 with a standard deviation of 100. What proportion of students had a higher score than Sadiq? (Assume that test scores are normally distributed)?

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 18% |
| <input type="radio"/> | 82% |
| <input type="radio"/> | 32% |
| <input type="radio"/> | 10% |

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Question: 14/50
Marks: 02

BACK NEXT SAVE END

Overview

10 11 12 13 14 15 16 17 18 19

01:58:13

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

To decide whether to use a z-test or t-test, which **TWO** of the following would need to be considered?

Selection Option(s)

- population mean
- whether population variance is known or unknown
- size of sample
- size of population

Question: 15/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:58:07

Let x assumes the value 0, 1, 2, and 3 with the respective probabilities 0.51, 0.38, 0.10 and 0.01 the mean of distribution is:

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 0.38 |
| <input type="radio"/> | 0.58 |
| <input type="radio"/> | 0.61 |
| <input type="radio"/> | 0.49 |

Question: 15/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:58:07

Let x assumes the value 0, 1, 2, and 3 with the respective probabilities 0.51, 0.38, 0.10 and 0.01 the mean of distribution is:

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 0.38 |
| <input type="radio"/> | 0.58 |
| <input type="radio"/> | 0.61 |
| <input type="radio"/> | 0.49 |

Question: 16/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:58:01

In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 720 |
| <input type="radio"/> | 5040 |
| <input type="radio"/> | 360 |
| <input type="radio"/> | 120 |

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Question: 17/50
Marks: 02

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Overview

13 14 15 16 17 18 19 20 21 22

01:57:56

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

If three dice are rolled; then the number of outcomes is:

Selection Option(s)

- 36
- 216
- 72
- 18

Air: Poor Sunday

Search

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Question: 18/50
Marks: 02

BACK NEXT SAVE END

Overview

14 15 16 17 18 19 20 21 22 23

01:57:50

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

An analysis of the frequency with which a football team scores goals in a match shows that the probability of securing goals in a match is as follows:

Goals	0	1	2	3	4	5	More than 5
Probability	0.10	0.25	0.20	0.15	0.20	0.05	0.05

The probability that the team will score a total of 5 goals in a two-match series is:

Selection Option(s)

- 0.83
- 0.82
- 0.17
- 0.12

Air: Poor Sunday

Search

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Question: 19/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business

BACK NEXT SAVE END

Overview
15 16 17 18 19 20 21 22 23 24

01:57:44

In a certain town, 50% of households own a cellular phone, 40% own a pager, and 20% own both a cellular phone and a pager.
What percentage of households own neither a cellular phone nor a pager?

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 30% |
| <input type="radio"/> | 25% |
| <input type="radio"/> | 15% |
| <input type="radio"/> | 35% |

Question: 19/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:57:44

In a certain town, 50% of households own a cellular phone, 40% own a pager, and 20% own both a cellular phone and a pager. What percentage of households own neither a cellular phone nor a pager?

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 30% |
| <input type="radio"/> | 25% |
| <input type="radio"/> | 15% |
| <input type="radio"/> | 35% |

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Question: 20/50
Marks: 02
Name: DEMO_QAB_NAME

BACK NEXT SAVE END

Overview
16 17 18 19 20 21 22 23 24 25

01:57:36

CRN: DEMO_QAB

Quantitative Analysis for Business

A student randomly guesses on 20 multiple-choice questions, each having four possible choices (only one correct).
What is the probability that the student gets exactly 4 answers correct?

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 0.5623 |
| <input type="radio"/> | 0.4623 |
| <input type="radio"/> | 0.1623 |
| <input type="radio"/> | 0.1897 |

Question: 21/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business

BACK NEXT SAVE END

Overview

17 18 19 20 21 22 23 24 25 26

01:57:32

A committee of 7 people is to be selected at random from a group of 10 men and 11 women.
What is the probability that at least 5 men will be included in the committee?

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 0.1867 |
| <input type="radio"/> | 0.1124 |
| <input type="radio"/> | 0.0915 |
| <input type="radio"/> | 0.1401 |

The prices of a commodity in different years are given below:

Years	Prices
2010	49
2011	53
2012	58
2013	62

The chain indices in the above case would be:

- | Selection | Option(s) |
|-----------------------|-----------------------------|
| <input type="radio"/> | 100, 92.50, 91.40, 93.55 |
| <input type="radio"/> | 100, 108.16, 109.43, 106.90 |
| <input type="radio"/> | 100, 105.50, 116.50, 114.50 |
| <input type="radio"/> | 100, 105.50, 118.40, 112.80 |

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Question: 23/50
Marks: 02

BACK NEXT SAVE END

Overview

19 20 21 22 23 24 25 26 27 28

01:57:16

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Consider the following:

- I Useful aid to give a visual impression of the relationship between variables.
- II Might indicate a relationship where there is none.
- III Might lead to incorrect conclusions if there are only a few data points available or the data collected is atypical for some reason.

Identify the limitation(s) of a scatter diagram.

Selection Option(s)

- Statement I and II only
- Statement II and III only
- Statement I only
- Statement I and III only

17°C Mostly clear Search hp ? M

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Question: 24/50
Marks: 02

BACK NEXT SAVE END

Overview

20 21 22 23 24 25 26 27 28 29

01:57:10

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Which **TWO** of the following statements are correct regarding the construction of a frequency distribution?

Selection Option(s)

- It begins by recording the number of times a particular value occurs
- It sometimes leads to providing incorrect data
- It is the least method of summarizing large data
- It is the basis for the construction of a percentage distribution

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Question: 25/50
Marks: 02

BACK NEXT SAVE END

Overview

21 22 23 24 25 26 27 28 29 30

01:57:03

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Which **TWO** of the following statements are correct?

Selection Option(s)

- If the coefficient of correlation, i.e., $r = 0$, it means there is a perfect correlation between x and y
- The value of the coefficient of determination is in the range -1 to $+1$
- The perfect negative or positive coefficient of correlation cannot be achieved in a real-life scenario
- The value of the coefficient of determination shows how much variation in the value of y is explained by variation in the value of x

17°C Mostly clear

Search

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Question: 26/50
Marks: 02

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Overview
22 23 24 25 26 27 28 29 30 31

01:56:56

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

The Human Resource Director of a large company wants to know what the employees of his company think about the proposed changes in the remuneration package. A questionnaire is given to 250 employees. 220 employees returned the questionnaire, of which 180 employees support the proposed change in the remuneration package. The population is:

Selection Option(s)

- 250 employees received the questionnaire
- 220 questionnaires have been returned
- all employees of the company
- 180 employees who support the proposed change in the remuneration package

17°C Mostly clear Search hp M Chrome

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Question: 27/50
Marks: 02

BACK NEXT SAVE END

Overview

23 24 25 26 27 28 29 30 31 32

01:56:49

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Which **TWO** of the following statements are correct?

Selection Option(s)

- An Ogive is constructed by joining the midpoints of the top of each rectangle of a histogram with straight lines
- An Ogive is the least desirable method of presentation of data
- Median of a grouped frequency distribution can be found by constructing an Ogive
- An Ogive is the graph of a cumulative frequency distribution

17°C Mostly clear

Search

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Question: 28/50
Marks: 02

BACK NEXT SAVE END

Overview

24 25 26 27 28 29 30 31 32 33

01:56:42

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Team A scored an average of 205 runs in 21 one-day international matches, with a standard deviation of 10, whereas Team B scored an average of 190 runs in the same number of matches, with a standard deviation of 8.

Based on the data, which of the following statements is correct?

Selection Option(s)

- Team B is more consistent because it has a lower standard deviation
- Team A is more consistent because it has a higher mean
- Team B is more consistent because it has a lower mean
- Team A is more consistent because it scored higher in most matches

17°C Mostly clear

Search

2:32 am 19/12/2025

If $\bar{x} = 11.33$; $\bar{y} = 33.56$ and $byx = 2.832$ then a is equal to:

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 11.85 |
| <input type="radio"/> | 1.47 |
| <input type="radio"/> | 4.00 |
| <input type="radio"/> | 0.96 |

Question: 30/50
Marks: 02

BACK NEXT SAVE END

Overview

26 27 28 29 30 31 32 33 34 35

01:56:29

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

A batter scored following runs in eleven T20 matches played in a calendar year:

35, 15, 51, 28, 0, 3, 85, 20, 45, 30, 0

What is the mode of his scores?

Selection Option(s)

- 20
- 30
- 15
- 0

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Question: 31/50
Marks: 02

BACK NEXT SAVE END

Overview

27 28 29 30 31 32 33 34 35 36

01:56:23

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

The mean of 11 numbers is 7. One of the numbers, 17, is deleted. What will be the mean of the remaining 10 numbers?

Selection Option(s)

- 5.50
- 6.50
- 6.09
- 6.00

17°C Mostly clear

Search

hp

2:32 am 19/12/2025

Question: 32/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:56:15

The average daily sales and the related standard deviation of Ali, Atif, Ahmed, and Azeem in thousands of rupees are 41 & 4.3, 36 & 3.2, 26 & 2.9, and 24 & 2.5, respectively. Who is the most inconsistent among them?

Selection Option(s)

- Azeem
- Ali
- Ahmed
- Atif

Question: 32/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:56:15

The average daily sales and the related standard deviation of Ali, Atif, Ahmed, and Azeem in thousands of rupees are 41 & 4.3, 36 & 3.2, 26 & 2.9, and 24 & 2.5, respectively. Who is the most inconsistent among them?

Selection Option(s)

- Azeem
- Ali
- Ahmed
- Atif

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Question: 33/50
Marks: 02

BACK NEXT SAVE END

Overview
29 30 31 32 33 34 35 36 37 38

01:56:09

Name: DEMO_QAB_NAME CRN: DEMO_QAB Quantitative Analysis for Business

Over a period of 4 years, an employee's salary has increased in the ratios 1.072, 1.086, 1.069, and 1.098. The average of these ratios and hence the average percent increase are:

Selection Option(s)

- 1.08119 and 8.6%
- 1.086 and 8.6%
- 1.08125 and 8.125%
- 1.08119 and 8.12%

17°C Mostly clear Search hp 2:32 am 19/12/2025

Question: 34/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business

Overview

01:56:02

30 31 32 33 34 35 36 37 38 39

BACK NEXT SAVE END

Lower quartile is equal to the:

Selection Option(s)

- 25th Percentile
- 25th Decile
- 50th Percentile
- 30th Decile

Question: 35/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:55:57

Sohrab & Company increased the wages of its workers by 20% during the year 2006, whereas the consumer price index changed from 240 to 270. Compute the increase/decrease in real wages.

Selection Option(s)

- Real wages increased by 6.67 %
- Real wages increased by 7.5 %
- Real wage decreased by 7.8%
- Real wage decreased by 6.17%

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Question: 36/50
Marks: 02

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Overview

32 33 34 35 36 37 38 39 40 41

01:55:48

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

If $\sum x = 58$, $\sum y = 313$, $\sum xy = 3,015$, $\sum x^2 = 594$ and $n = 6$ then equation for regression line of y on x (line of best fit) would be:

Selection Option(s)

- $y = 55.26 + 0.32x$
- $y = 0.32 - 55.26x$
- $x = -0.32 + 55.26y$
- $y = 55.26 - 0.32x$

17°C Mostly clear

Search

2:33 am 19/12/2025

Question: 37/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Overview
01:55:42
Quantitative Analysis for Business

For 10 pairs of observations, the ranks of two variables are exactly in reverse order. In this situation, what is the value of Σd^2 ?

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 33 |
| <input type="radio"/> | 1 |
| <input type="radio"/> | -1 |
| <input type="radio"/> | 330 |

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Question: 38/50
Marks: 02

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01:55:37

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

A pharmaceutical company sent its teams into rural areas of the country to interview all mothers with children under 2 years of age. This sampling method is an example of:

- | Selection | Option(s) |
|-----------------------|----------------------|
| <input type="radio"/> | Convenience sampling |
| <input type="radio"/> | Cluster sampling |
| <input type="radio"/> | Systematic sampling |
| <input type="radio"/> | Stratified sampling |

17°C Mostly clear

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Question: 39/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:55:30

XYZ and Company has developed a new product that would generate revenue of Rs. 80 million during the first year. Thereafter, the revenue would decline by 20% each year. The company would be able to earn a revenue of _____ million over the life of the product.

- | Selection | Option(s) |
|-----------------------|-----------------|
| <input type="radio"/> | Rs. 400 million |
| <input type="radio"/> | Rs. 300 million |
| <input type="radio"/> | Rs. 100 million |
| <input type="radio"/> | Rs. 450 million |

Question: 40/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:55:25

A firm is introducing a new washing detergent. The firm plans to sell the family size box for Rs. 24. Production estimates have shown that the variable cost of producing one unit of the product is Rs. 21.60. Fixed cost of production is Rs. 36,000. It is assumed that both the total revenue and total cost functions are linear over the relevant sales quantity range. Then the break-even volume of sales is:

- | Selection | Option(s) |
|-----------------------|---------------|
| <input type="radio"/> | 1,500 boxes |
| <input type="radio"/> | 150 boxes |
| <input type="radio"/> | 15,000 boxes |
| <input type="radio"/> | 150,000 boxes |

Question: 40/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:55:25

A firm is introducing a new washing detergent. The firm plans to sell the family size box for Rs. 24. Production estimates have shown that the variable cost of producing one unit of the product is Rs. 21.60. Fixed cost of production is Rs. 36,000. It is assumed that both the total revenue and total cost functions are linear over the relevant sales quantity range. Then the break-even volume of sales is:

- | Selection | Option(s) |
|-----------------------|---------------|
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| <input type="radio"/> | 15,000 boxes |
| <input type="radio"/> | 150,000 boxes |

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Question: 41/50
Marks: 02

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01:55:20

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

The cost of production of a product in rupees is: $C = 15x + 9,750$ where x is the number of items produced. If the selling price of each item is Rs. 30, the sales quantity at which there would be no profit or loss is:

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 650 units |
| <input type="radio"/> | 560 units |
| <input type="radio"/> | 600 units |
| <input type="radio"/> | 500 units |

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Question: 42/50
Marks: 02

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01:55:11

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

Which **TWO** of the following are **NOT** quadratic equations?

Selection Option(s)

- $\sqrt{3}x^2 - 12x = 15$
- $\frac{3}{5}x - 12 = 2x$
- $5x^2 - 7 = 2x$
- $2x - 11 = 5x$

17°C Mostly clear

Search

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Question: 43/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business
01:55:06

Linear programming model can be used for _____.

Selection Option(s)

- profit determination
- cost minimization
- graphical analysis of cost and profit
- break-even calculation

For the following set of inequalities and objective function. Identify the optimal solution using corner point theorem:

Constraints

- (i) $x \geq 0$
- (ii) $y \geq 0$
- (iii) $x+y \leq 8$

Objective function

Profit = $10x+2y$

Selection Option(s)

- (4, 4)
- (0, 8)
- (0, 0)
- (8, 0)

Question: 45/50
Marks: 02
Name: DEMO_QAB_NAME
CRN: DEMO_QAB
Quantitative Analysis for Business

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01:54:54

The sum of a certain number of terms of an arithmetic progression series $-8, -6, -4, \dots$ is 52. The number of terms is:

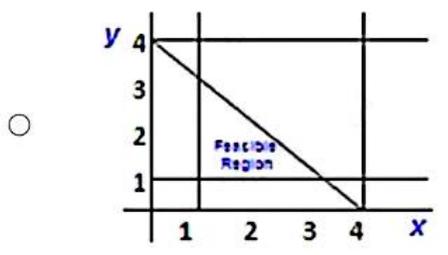
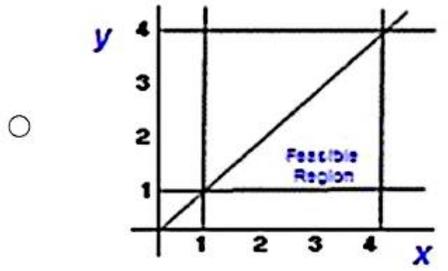
Selection Option(s)

- 11
- 12
- 13
- 1

Which of the following graphs represents the given set of inequalities?

- $x, y \geq 1$
- $x, y \leq 4$
- $x \geq y$

Selection Option(s)



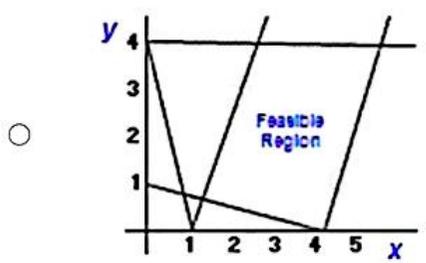
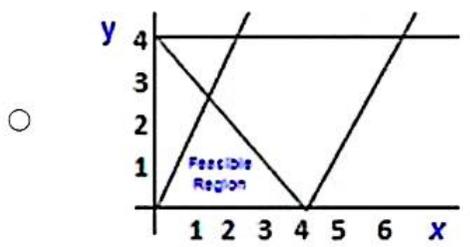
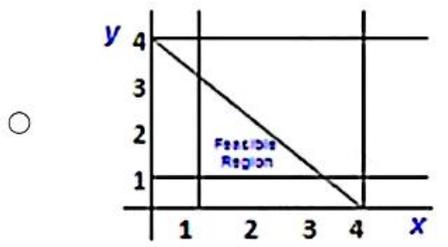
Question: 46/50
Marks: 02

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- 49
- 50

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Question: 47/50
Marks: 02

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01:54:34

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

A company makes and sells two products, X and Y. The contribution per unit is Rs. 250 for product X and Rs. 375 for product Y. Due to various constraints, the company cannot produce more than 750 units of X and 500 units of Y per month.

If x represents the number of product X, y represents the number of product Y, and C represents contribution, which of the following equations correctly represents the total contribution?

Selection Option(s)

- $C = 375x + 250y$
- $C = 250x - 375y$
- $C = 250x + 375y$
- $C = 625(x + y)$

17°C Mostly clear

Search

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$$\sqrt{x^4 - 18x^2 + 81} = 0$$

Which of the following represents the roots of the above equation?

Selection Option(s)

- $\pm 2\sqrt{3}$
- $\pm\sqrt{3}$
- ± 3
- ± 9

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Question: 49/50
Marks: 02

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Overview

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01:54:22

Name: DEMO_QAB_NAME CRN: DEMO_QAB

Quantitative Analysis for Business

If thrice Ali's age 6 years ago is subtracted from twice his present age, the result would be equal to his present age. Find Ali's present age.

- | Selection | Option(s) |
|-----------------------|-----------|
| <input type="radio"/> | 12 years |
| <input type="radio"/> | 10 years |
| <input type="radio"/> | 9 years |
| <input type="radio"/> | 8 years |

17°C Mostly clear

Search

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A company makes and sells two products, X and Y. The related information is as follows:

Description	X	Y
Contribution per unit (Rs.)	450	375
Maximum sales demand per month	2,800	1,200
Direct labour hours per unit	2	5
Machine hours per unit	6	7

A total of 10,000 direct labour hours and 22,000 machine hours are available per month.

Which of the following correctly represents the objective function (Z) and the set of constraints for this situation?

Selection Option(s)

$Z = 375x + 450y$

$2x + 5y \leq 22,000$

$6x + 7y \leq 10,000$

$x \leq 2,800, y \leq 1,200, x, y \geq 0$

$Z = 450x + 375y$