

CAT 2021

DI New Series for CAT 2021 & CMAT

Weightage In CAT

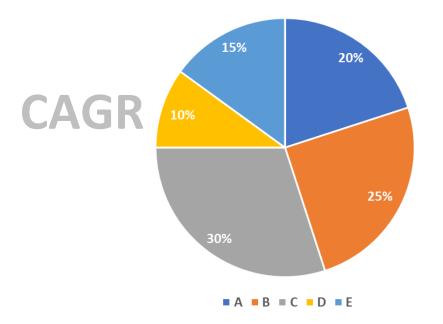
æMarks 12.

Calculation Based DI & Graphs

Session 1

% Change

AAGR

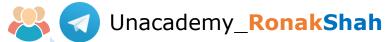


Inflation

Discount Code

Growth

SHAH10



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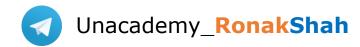
Weightage In **CAT**

30 Marks



- **Important Concepts**
- Introduction to various Charts





Ronak Shah

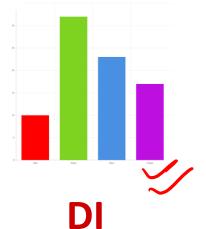
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Interview &

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Mission

CAT 2021



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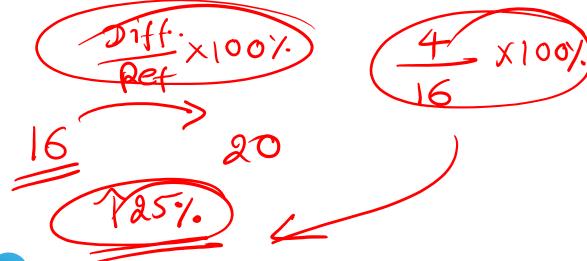
Inflation/Deflation



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The table below shows the quantity (in kg) of wheat that can be purchased for Rs. 200 in the year 2018, 2019, 2020. What is the rate of Inflation in the Year 2019, w.r.t 2018?

| | Year | Qty. |
|---|--------|--------|
| | 2018 | 12.5 🛌 |
| (| | |
| | > 2019 | 10 |













Inflation/Deflation

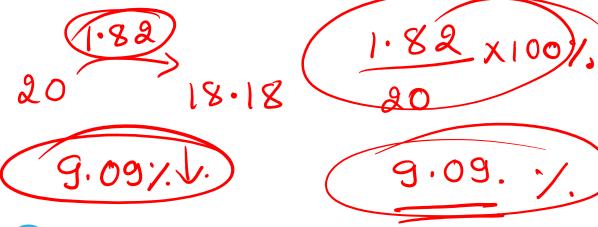


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The table below shows the quantity (in kg) of wheat that can be purchased for Rs. 200 in the year 2018, 2019, 2020. What is the rate of deflation in the Year 2020, w.r.t 2019?



| Year | Qty. | Price/kg. | |
|------|-----------------|----------------|-------------|
| 2018 | 12.5 | | 0.00 |
| 2019 | 10 🛂 q | Rs.20 | 200 = 18-18 |
| 2020 | 11 L g 1 | LRS. 18.18 02. | 1 1 |













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Averages

PLUS Batches

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LR-DI - 11:30 to 1 (S, S)



Schedule



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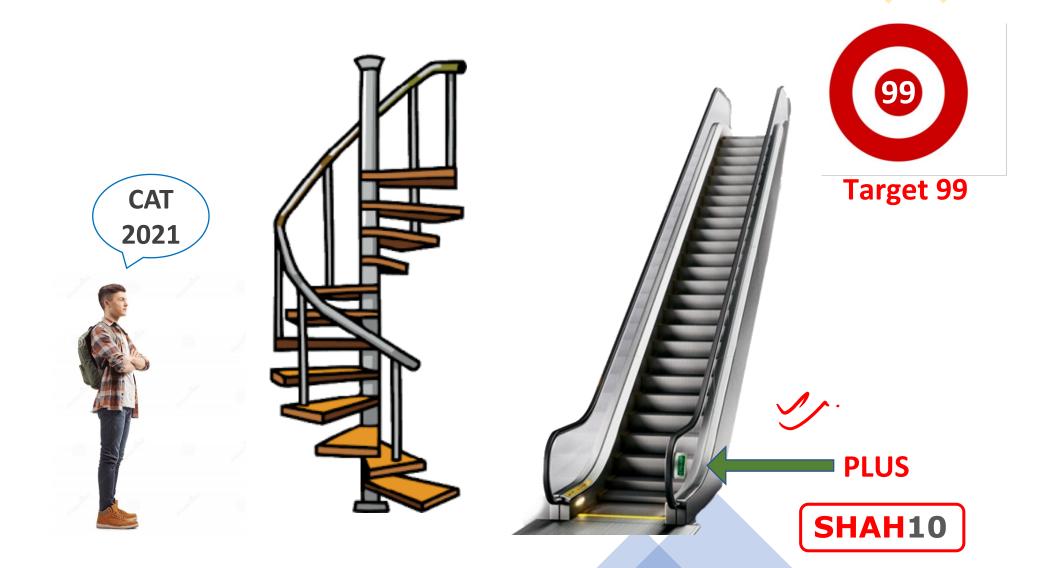
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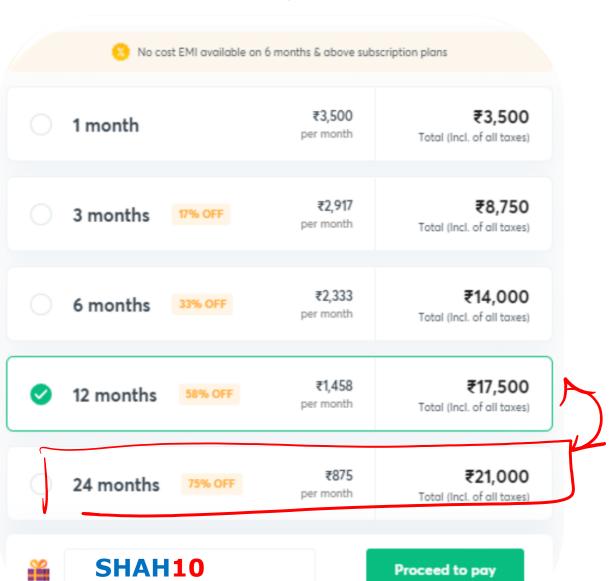
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Finding Average



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Find the Average Marks obtained by 6 students in a test of 300 Marks.

<u>5.C</u>

Assume

AVO

| | | 3 |
|------|-----|------------------|
| | 121 | -13 |
| | 127 | -3 |
| | 137 | |
| 6 | 145 | 15 |
| 405- | 152 | ±12 (+35) |
| | 158 | <u>_ +18</u>] J |
| | | |













% Difference Vs. % Change



SHAH10

The following tables provides the data about sales (in Rs. Cr) of 5 companies in a Market. The total Increase of

market size was Rs. 1200 Cr. in 2019 and 2020.

Find the % Change in the Market share of these 5 companies (together) from 2019 to 2020.

| y.Change. | (V.) | 1200 | 1200 |
|-----------|------|------|------|
| in Mis | Year | 2019 | 2020 |
| | А | 20 | 40 |

| 7 71 | Tear | 2013 | 2020 |
|------------|------|------|------|
| | А | 20 | 40 |
| | В | 30 | 30 |
| /22.33/0 | C | 50 | 60 |
| (35. 35.) | D | 80 | 120 |
| | E | 120 | 150 |

33.33%



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% Difference Vs. % Change



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The following tables provides the data about sales (in Rs. Cr) of 5 companies in a Market. The total market size was Rs. 1200 Cr. in 2019 and 2020.

Find the numerical difference in % Market share of these 5 companies (together) between 2019 and 2020.

| Year | 2019 | 2020 |
|------|------|------|
| А | 20 | 40 |
| В | 30 | 30 |
| С | 50 | 60 |
| D | 80 | 120 |
| E | 120 | 150 |

300

Numerical.
Diff. = 3:3.33%.



33.33%.





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Ratios – Quick Calculations

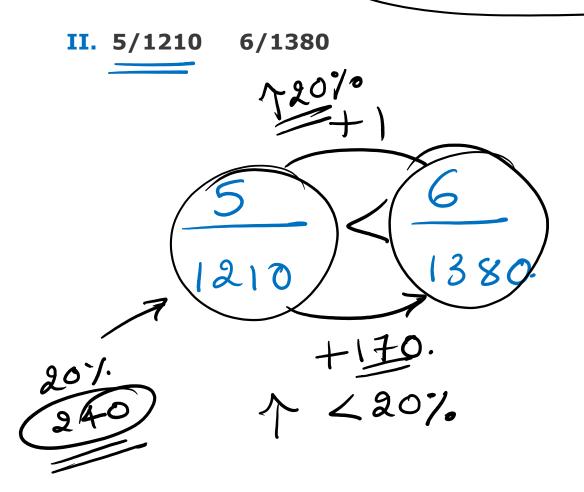


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Which of the following Fractions are Greater?

Application of

I. 30/200\(\delta\)/210













0. 1

٠//·

In case of Type Q laptop, in which year was the ratio of rejection to production the highest among the given years?

A. 2010 🥒

B. 2011 \checkmark

C. 2012

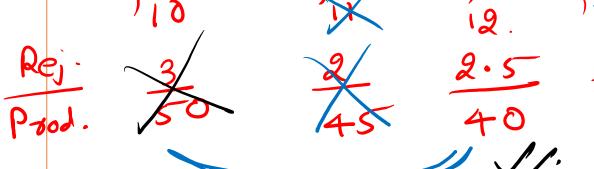
D. 2013

2.5 3 3 50.

The table below shows the information about number of laptops (figures in 1000s) of different models produced and rejected by a company over six years.

Number of laptops of different models produced and rejected by a company over the years (figures in 1000s)

| Laptop model | Р | | Q | | R | 1 | S | 3 | - | Г |
|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Year | Produced | Rejected |
| 2010 | 20 | 2 | 50 | 3 | 15 | 0.5 | 80 | 5 | 60 | 4 |
| 2011 | 35 | 3 | 45 | 2 | 20 | 0.55 | 75 | 4 | 58 | 4 |
| 2012 | 15 | 0.5 | 40 | 2.5 | 17 | 0.7 | 58 | 2 | 62 | 3.5 |
| 2013 | 25 | 0.25 | 42 | 2.3 | 25 | 1.5 | 65 | 3 | 40 | 1.5 |
| 2014 | 30 | 1.5 | 48 | 2.5 | 30 | 2 | 68 | 3 | 45 | 2 |
| 2015 | 27 | 1.5 | 41 | 2.1 | 26 | 1.75 | 72 | 3.5 | 50 | 2.3 |





Q. 2

In which year was the ratio of rejection to production the lowest among the given years for type T laptop?

- **A.** 2010
- **B.** 2012
- **C.** 2013
- **D.** 2014

The table below shows the information about number of laptops (figures in 1000s) of different models produced and rejected by a company over six years.

Number of laptops of different models produced and rejected by a company over the years (figures in 1000s)

| Laptop model | Р |) | Ç |) | F | l | S | 3 | • | Г |
|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Year | Produced | Rejected |
| 2010 | 20 | 2 | 50 | 3 | 15 | 0.5 | 80 | 5 | 60 | 4 |
| 2011 | 35 | 3 | 45 | 2 | 20 | 0.55 | 75 | 4 | 58 | 4 |
| 2012 | 15 | 0.5 | 40 | 2.5 | 17 | 0.7 | 58 | 2 | 62 | 3.5 |
| 2013 | 25 | 0.25 | 42 | 2.3 | 25 | 1.5 | 65 | 3 | 40 | 1.5 |
| 2014 | 30 | 1.5 | 48 | 2.5 | 30 | 2 | 68 | 3 | 45 | 2 |
| 2015 | 27 | 1.5 | 41 | 2.1 | 26 | 1.75 | 72 | 3.5 | 50 | 2.3 |





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Basics of moths



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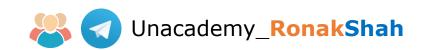


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AAGR - Average Annual Growth Rate

AAGR = Sum of growth rates in each year
Total Number of Years











CAGR - Compounded Annual Growth Rate

$$CAGR = \left[\left(\frac{Final \, Value}{Starting \, Value} \right)^{\frac{1}{Number \, of \, periods}} - 1 \right] \times 100 \,\%$$











The following table shows the sales figures of the two superbikes R125 and S130 for different years. The sales are represented in 1000 units sold. What is AAGR for S130 from 2004 to 2007?

| Year | R125 | S130 |
|------|------|------|
| 2017 | 24 | 51 |
| 2018 | 55 | 54 |
| 2019 | 67 | 59 |
| 2020 | 81 | 68 |











The following table shows the sales figures of the two superbikes R125 and S130 for different years. The sales are represented in 1000 units sold. What is CAGR for S130 from 2004 to 2007?

| Year | R125 | S130 |
|------|------|------|
| 2017 | 24 | 51 |
| 2018 | 55 | 54 |
| 2019 | 67 | 59 |
| 2020 | 81 | 68 |







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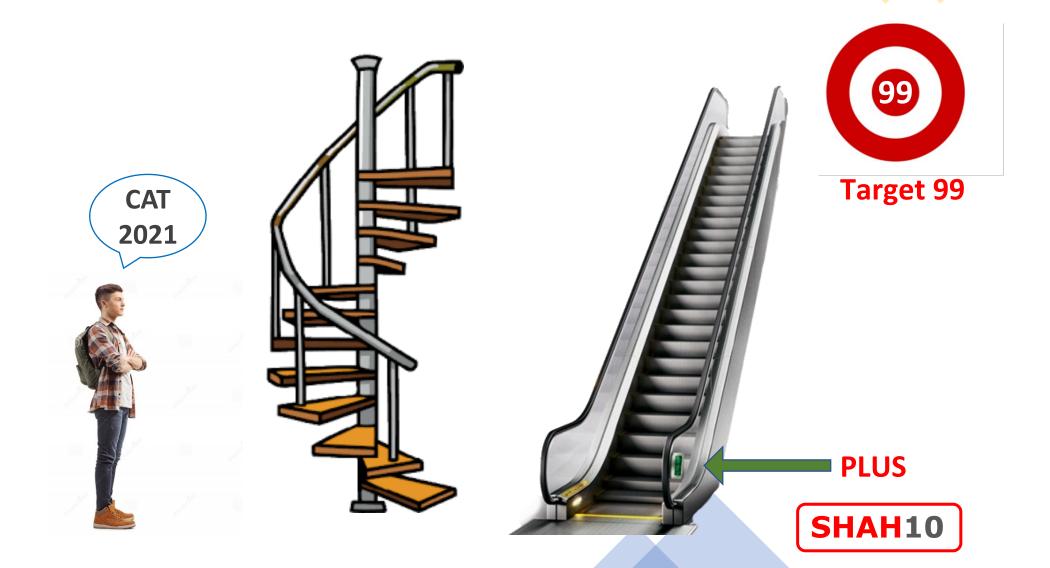
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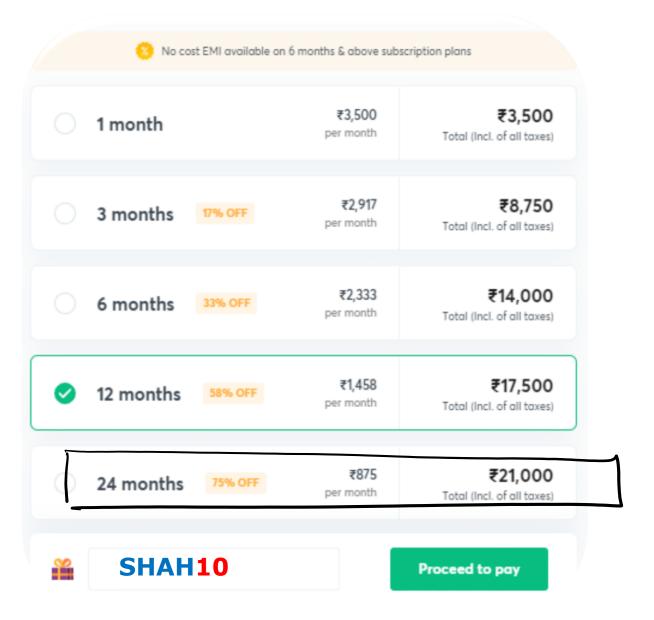
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30 Marks







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