



# MATHEMATICS - 10TH

IMPORTANT MCQ'S – MATHS (10TH GRADE)



## STATISTICS



To Download All Topics  
<https://www.hekorba.in/download>



This softcopy belongs to:

Heights Education | Top Coaching Institute in Korba  
Classes : VII, VIII, IX, X, XI & XII  
Below Overbridge Korba - 8234027591

Material Curated by  
Er. Sonal Agrawal Sir  
Ex. Scientist , BARC Mumbai

## 10th - Maths

### STATISTICS

SN		Marks
1	Grouped data is the data that has been organised into several groups, called _____ ( a ) Columns ( b ) Intervals ( c ) Classes ( d ) Units	1
2	Find the median of the daily wages of ten workers from the following data: Rs. 20, 25, 17, 18, 8, 15, 22, 11, 9, 14 ( a ) 14 ( b ) 16 ( c ) 17 ( d ) 20	2
3	The mean of 20 numbers is zero. Of them, at the most, how many may be greater than zero? ( a ) 0 ( b ) 1 ( c ) 10 ( d ) 19	2
4	State TRUE or FALSE. If n is the total number of observations, the class whose cumulative frequency is greater than (and nearest to) $\frac{n}{2}$ . This class is called the median class. ( a ) TRUE ( b ) FALSE	1
5	The mean of first n odd natural numbers is ( a ) $\frac{n+1}{2}$ ( b ) $\frac{n}{2}$ ( c ) n ( d ) $n^2$	2





# HEIGHTS EDUCATION

**Classes : VII|VIII|IX|X|XI|XII (CBSE)**



**ADMISSION OPEN**

## Mentors



**Er. Sonal Kumar Agrawal**  
✍ B.E., M.Tech.  
✍ Ex BARC Scientist (Mumbai)

India's Renowned Faculty

**Sonal Sir**



**Er. Neha Agrawal**  
✍ B.E., M.Tech.  
✍ Renowned Faculty Raipur

**And Team**

**Transport Facility Available**

**DARRI ROAD**  
BELOW OVERBRIDGE KORBA (C.G.)

**8234027591**

**HEIGHTS EDUCATION KORBA**  
<https://www.hekorba.in>



6	<p>Mid value of a class interval is</p> <p>( a ) Mean ( b ) Median</p> <p>( c ) Class mark ( d ) Ogive</p>	1												
7	<table border="1" data-bbox="215 454 817 526"> <thead> <tr> <th>Class</th> <th>0-5</th> <th>6-11</th> <th>12-17</th> <th>18-23</th> <th>24-29</th> </tr> </thead> <tbody> <tr> <td>Frequency</td> <td>13</td> <td>10</td> <td>15</td> <td>8</td> <td>11</td> </tr> </tbody> </table> <p>Consider the above frequency distribution. Find the upper limit of the median class.</p> <p>( a ) 18 ( b ) 17.5</p>	Class	0-5	6-11	12-17	18-23	24-29	Frequency	13	10	15	8	11	2
Class	0-5	6-11	12-17	18-23	24-29									
Frequency	13	10	15	8	11									
8	<table border="1" data-bbox="215 732 817 804"> <thead> <tr> <th>Class</th> <th>0-5</th> <th>6-11</th> <th>12-17</th> <th>18-23</th> <th>24-29</th> </tr> </thead> <tbody> <tr> <td>Frequency</td> <td>13</td> <td>10</td> <td>15</td> <td>8</td> <td>11</td> </tr> </tbody> </table> <p>Consider the above frequency distribution. The upper limit of the median class is _____.</p> <p>( a ) 16.5 ( b ) 18.5</p> <p>( c ) 18 ( d ) 17.5</p>	Class	0-5	6-11	12-17	18-23	24-29	Frequency	13	10	15	8	11	2
Class	0-5	6-11	12-17	18-23	24-29									
Frequency	13	10	15	8	11									
9	<p>Find the mode of the data given below: 15, 8, 26, 25, 24, 15, 18, 20, 24, 15, 19, 15.</p> <p>( a ) 15 ( b ) 20</p> <p>( c ) 10 ( d ) 5</p>	3												
10	<p>The mean of first n odd natural numbers is</p> <p>( a ) <math>\frac{n+1}{2}</math> ( b ) <math>\frac{n}{2}</math></p> <p>( c ) n ( d ) <math>n^2</math></p>	2												





11	<table border="1" data-bbox="236 241 821 302"> <thead> <tr> <th>Classes</th> <th>0-20</th> <th>20-40</th> <th>40-60</th> <th>60-80</th> <th>80-100</th> <th>100-120</th> <th>120-140</th> </tr> </thead> <tbody> <tr> <td>Frequency</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>6</td> <td>5</td> <td>3</td> </tr> </tbody> </table> <p data-bbox="209 353 799 387">From the above figure, the mean of the data is ?</p> <p data-bbox="209 396 887 477">( a ) 75.56 ( b ) 47 ( c ) 66.66 ( d ) 62</p>	Classes	0-20	20-40	40-60	60-80	80-100	100-120	120-140	Frequency	6	8	10	12	6	5	3	3
Classes	0-20	20-40	40-60	60-80	80-100	100-120	120-140											
Frequency	6	8	10	12	6	5	3											
12	<p data-bbox="209 566 1361 613">In the formula <math>\bar{x} = a + \frac{f_i d_i}{f_i}</math> for finding the mean of grouped data <math>d_i</math>'s are deviations from a of</p> <p data-bbox="209 622 1233 703">( a ) lower limits of the classes ( b ) upper limits of the classes ( c ) mid points of the classes ( d ) frequencies of the class marks</p>	1																
13	<p data-bbox="209 795 1002 828">What is the empirical relation between mean, median and mode?</p> <p data-bbox="209 837 1145 918">( a ) <math>7\text{Mode} = 3\text{Median} - 2\text{Mean}</math> ( b ) <math>\text{Mode} = 3\text{Median} - 2\text{Mean}</math> ( c ) <math>\text{Mode} = \text{Median} - 2\text{Mean}</math> ( d ) <math>\text{Mode} = 3\text{Median} - \text{Mean}</math></p>	2																
14	<p data-bbox="209 1010 1382 1077">If the 'less than type' ogive and 'more than type' ogive intersect each other at (20.5, 15.5) then the median of the given data is _____.</p> <p data-bbox="209 1086 909 1167">( a ) 5.5 ( b ) 15.5 ( c ) 20.5 ( d ) 36</p>	1																



CLASS  
9<sup>th</sup>



**KAVYA AGRAWAL**  
NEPS 93%



**ARSH TIWARI**  
DPS B 92.4%



**KINJAL MISHRA**  
KV KUSM 91%



**SANIYA AGRAWAL**  
DDM KORBA 89%



**KABERI KAR**  
JPS KORBA 87%



**SMRITI DONGRE**  
DDM KORBA 87%



**VANSHIKA AGRAWAL**  
NEPS KORBA 85%

CLASS  
10<sup>th</sup>



**ARSHIYA ANJUM**  
NIRMALA CBSE 94%



**ARSHAD ALI**  
NIRMALA CBSE 93%



**ANVESHA AGRAWAL**  
DPS NTPC 89%



**ANSHU BHARDWAJ**  
ST. PALLOTI 88%



**SATYAM KUMAR**  
NEPS 80%



**ABHINAV ANAND**  
ST. PALLOTI 78%



**ANMOL PATRA**  
NIRMALA CBSE 78%

CLASS  
12<sup>th</sup>



**ABHISHEK ANAND**  
St. PALLOTI 88%



**MUKTI JAISWAL**  
St. PALLOTI 86%



**VEDANT SINGH**  
St. PALLOTI 80%

## ACHIVERS 2022 - 23 KORBA BRANCH

## ACHIVERS BILASPUR BRANCH



**SHUBODH RANJAN**  
IIT BHU



**ARVIND KUMAR**  
IISc BANGALORE



**MANISH SINGH**  
IIT DELHI



**AVINASH KR. SAHU**  
IIT KHARAGPUR



**MANU KASHYAP**  
IIT DELHI



**SUSHEELA SINGH**  
IIT MADRAS



**ATUL BANJARE**  
IIT KHARAGPUR



**VIBHA RANJAN**  
IIT GUWAHATI



**RAHUL KUMAR**  
IIT BOMBAY



**P. CHAITANYA**  
IIT BOMBAY



**PRAKHAR JAIN**  
IISc BANGALORE



**ANKUR GUPTA**  
IIT HYDERABAD

Many More ....

## Sonal Sir With Director ISRO (PS Goel Sir)



**SONAL SIR**

- Ex Government Nuclear Scientist Bhabha Atomic Reserch Centre (Mumbai)
- Trained More then 1 lakh students online and Offline - Bilaspur, Bhilai, Delhi



**Susmita Kaviraj**

Selected in NTPC

**P Chaitanya**

Selected in IIT - Bombay,  
Placed in Micron



**Prakhar Jain**

Selected in IISc Bangalore,  
Placed in Samsung

सीयू के छात्र मनु व मनीष का इंटेल कंपनी में चयन, 21 लाख सालाना पैकेज

बिलासपुर छात्र मनु कश्यप और मनीष कुमार सिंह का चयन इंटेल प्राइवेट लिमिटेड के लिए हुआ है। कंपनी इन छात्रों को सालाना 21 लाख रूपए का पैकेज दे रही है। ये दोनों छात्र सत्र 2017 में सीयू के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग से बोटिक की उपाधि प्राप्त की। वर्तमान में ये भारतीय प्रौद्योगिकी संस्थान (आईआईटी) दिल्ली में एमटेक कर रहे हैं। इंटेल कॉर्पोरेशन एक अमेरिकी बहुराष्ट्रीय कंपनी है। सिलिकॉन वैली में साता कलारा स्थित इस कंपनी का भारत में मुख्यालय बंगलूरु है।

Our Students from Bilaspur Centre

Placed in





# MATHEMATICS - 10TH

## IMPORTANT MCQ'S - MATHS (10TH GRADE)

### STATISTICS

1	2	3	4	5	6	7	8
C	B	D	A	C	C	B	D
9	10	11	12	13	14	15	16
A	C	D	C	B	C	-	-
17	18	19	20	21	22	23	24
-	-	-	-	-	-	-	-
25	26	27	28	29	30	31	32
-	-	-	-	-	-	-	-
33	34	35	36	37	38	39	40
-	-	-	-	-	-	-	-
41	42	43	44	45	46	47	48
-	-	-	-	-	-	-	-