



MATHEMATICS - 10TH

IMPORTANT MCQ'S - MATHS (10TH GRADE)



PROBABILITY



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Material Curated by

Er. Sonal Agrawal Sir

Ex. Scientist , BARC Mumbai



10th - Maths

SN		Marks
1	State true or false: King, queen and jack are face cards. (a) TRUE (b) FALSE	1
2	A card is drawn at random from a deck of playingg cards. Then, the probability of geting a face card is (a) $\frac{3}{13}$ (b) $\frac{2}{13}$ (c) $\frac{4}{13}$ (d) $\frac{5}{13}$	2
3	In a musical chair game, the person playing the music has been advised to stop playing the music at any time within 2 minutes after she starts playing. What is the probability that the music will stop within the first half minute after starting? (a) $\frac{3}{5}$ (b) $\frac{5}{27}$ (c) $\frac{1}{4}$ (d) $\frac{5}{12}$	1
4	A die is thrown once. What is the probability that it shows a number less than or equal 4? (a) $\frac{1}{6}$ (b) $\frac{1}{2}$ (c) $\frac{2}{3}$ (d) $\frac{1}{3}$	2
5	A letter of English alphabets is chosen at random. Determine the probability that the letter is a consonant (a) $\frac{21}{26}$ (b) $\frac{5}{26}$ (c) 1 (d) 0.5	2
6	State true or false: Probability can never be negative. (a) TRUE (b) FALSE	1
7	A die is thrown once. What is the probability of getting an odd number? (a) $\frac{3}{4}$ (b) $\frac{9}{17}$ (c) $\frac{1}{2}$ (d) $\frac{10}{13}$	1





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)

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Sonal Sir



Er. Neha Agrawal
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8	Which of the following cannot be the probability of an event? (a) $\frac{2}{3}$ (c) 15%	(b) -1.5 (d) 16:48	2
9	Ramesh buys a fish from a shop for his aquarium. The shopkeeper takes out one fish at random from a tank containing 5 male fish and 9 female fish. Then, the probability that the fish taken out is a male fish, is (a) $\frac{5}{13}$ (c) $\frac{6}{13}$	(b) $\frac{5}{14}$ (d) $\frac{7}{13}$	3
10	A bag contains 6 red and 5 blue balls. One ball is drawn at random from the bag. Then, the probability that the ball drawn is blue is (a) $\frac{5}{11}$ (c) $\frac{4}{11}$	(b) $\frac{3}{11}$ (d) $\frac{2}{11}$	2
11	Two coins are tossed simultaneously. Find the probability of getting at least one head. (a) $\frac{3}{4}$ (c) $\frac{1}{4}$	(b) $\frac{2}{4}$ (d) 1	2
12	If a number x is chosen from the numbers 1, 2, 3, and a number y is selected from the numbers 1,4,9. Then, P (xy < 9) = ? (a) $\frac{7}{9}$ (c) $\frac{2}{3}$	(b) $\frac{5}{9}$ (d) $\frac{1}{9}$	2
13	One card is drawn from a well-shuffled deck of 52 cards. Find the probability of getting the queen of diamonds. (a) $\frac{1}{52}$ (c) $\frac{11}{52}$	(b) $\frac{13}{52}$ (d) $\frac{3}{52}$	3
14	A lot of 20 bulbs contain 4 defective ones. One bulb is drawn at random from the lot. What is the probability that this bulb is defective? (a) $\frac{9}{10}$ (c) $\frac{2}{10}$	(b) $\frac{1}{10}$ (d) $\frac{4}{10}$	3





15	The probability of getting a rotten egg in a lot of 400 is 0.035. The number of bad eggs in the lot is (a) 7 (c) 21	(b) 14 (d) 28	3
16	A square dart board is placed in the first quadrant from $x = 0$ to $x = 6$ and $y = 0$ to $y = 6$. A triangular region on the dart board is enclosed by the lines $y = 2$, $x = 6$ and $y = x$. Find the probability that a dart that randomly hits the dart board will land in the triangular region formed by the three lines. (a) $\frac{2}{9}$ (c) $\frac{1}{2}$	(b) $\frac{9}{17}$ (d) $\frac{10}{13}$	1
17	If I toss a coin 3 times and get head each time, should I expect a tail to have a higher chance in the 4th toss? Is it true. (a) YES	(b) NO	3
18	State true or false: For A and B two possible outcomes of an event, if $P(A) = P(B)$, then event A and B are equally likely to occur. (a) TRUE	(b) FALSE	1
19	An integer is chosen between 70 and 100. Find the probability that it is divisible by 7. (a) $\frac{2}{29}$ (c) $\frac{6}{29}$	(b) $\frac{4}{29}$ (d) $\frac{8}{29}$	2
20	In a single throw of a pair of different dice, what is the probability of getting a prime number on each dice? (a) $\frac{1}{2}$ (c) $\frac{1}{6}$	(b) $\frac{1}{4}$ (d) $\frac{3}{4}$	1



CLASS
9th



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
10th



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
12th



ABHISHEK ANAND
St. PALLOTI 88%



MUKTI JAISWAL
St. PALLOTI 86%



VEDANT SINGH
St. PALLOTI 80%

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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

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IMPORTANT MCQ'S - MATHS (10TH GRADE)

PROBABILITY

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