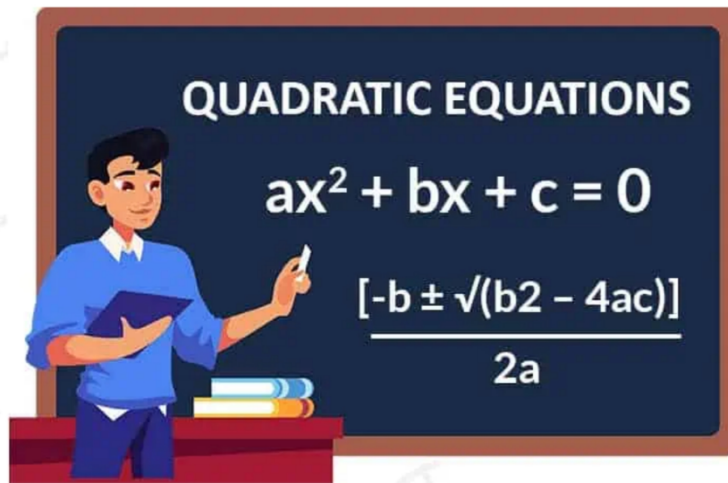




MATHEMATICS - 10TH

IMPORTANT MCQ'S - MATHS (10TH GRADE)



QUADRATIC EQUATIONS



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



	<p>(a) $x^2 + 2x - 27 = 0$</p> <p>(c) $x^2 + 32x - 273 = 0$</p>	<p>(b) $x^2 + 3x = 0$</p> <p>(d) $2x^2 + 7x - 23 = 0$</p>	
9	<p>State true or false: Every quadratic equation has at least two roots.</p> <p>(a) TRUE</p>	<p>(b) FALSE</p>	1
10	<p>State true or false: Every quadratic equation has at most two roots.</p> <p>(a) TRUE</p>	<p>(b) FALSE</p>	1
11	<p>Find the values of k so that the quadratic equation $x^2 - 4kx + k = 0$ has equal roots.</p> <p>(a) $k = 1$ or $k = \frac{1}{3}$</p> <p>(c) $k = 0$ or $k = \frac{1}{4}$</p>	<p>(b) $k = 2$ or $k = \frac{1}{2}$</p> <p>(d) NONE OF THESE</p>	1
12	<p>Find the values of k for which the quadratic equation $9x^2 - 3kx + k = 0$ has equal roots.</p> <p>(a) $k = 0$ or $k = 4$</p> <p>(c) $k = 0$ or $k = 3$</p>	<p>(b) $k = 0$ or $k = 2$</p> <p>(d) NONE OF THESE</p>	1
13	<p>Does the following equation has 2 as a root? $x^2 - 4x + 5 = 0$</p> <p>(a) YES</p>	<p>(b) NO</p>	1
14	<p>The quadratic equation $x^2 - 6x - 16 = 0$ has sum of roots equal to 6 and product of roots equal to _____</p> <p>(a) 16</p>	<p>(b) -16</p>	1
	<p>(c) 22</p>	<p>(d) None of these</p>	





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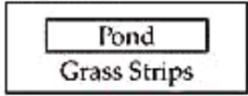
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	(a) Real and unequal	(b) Real and equal	
	(c) Not real	(d) NONE OF THE ABOVE	
23	Find the nature of the roots of the following quadratic equation $x^2 - x + 2 = 0$		1
	(a) Real and unequal	(b) Real and equal	
	(c) Not real	(d) NONE OF THE ABOVE	
24	If the sum of two natural numbers is 27 and their product is 182, find the numbers.		1
	(a) 13 & 14	(b) 15 & 16	
	(c) 17 & 14	(d) NONE OF THE ABOVE	
25	The sum of the squares of two consecutive multiples of 7 is 637. Find the multiples.		1
	(a) 14 & 19	(b) 14 & 21	
	(c) 21 & 16	(d) NONE OF THE ABOVE	
26	A person on tour has rupees 4200 for his expenses. If he extends his tour for 3 days, he has to cut down his daily expenses by rupees 70. Find the original duration of the tour. (in days)		1
	(a) 11	(b) 12	
	(c) 13	(d) 14	
27	The sum of the ages of a man and his son is 45 years. Five years ago, the product of their ages (in years) was 124. Find their present ages.		1
	(a) Man's present age = 37 years, Son's present age = 19 years.	(b) Man's present age = 36 years, Son's present age = 9 years.	
	(c) Man's present age = 56 years, Son's	(d) Man's present age = 36 years, Son's	





	present age = 9 years.	present age = 19 years.	
28	If a man walks 1 km/hr faster than his usual speed then he covers a distance of 3 km in 15 minutes less time. Find his usual speed. (a) 3 km/hr (c) 5 km/hr	(b) 4 km/hr (d) 6 km/hr	1
29	The product of two consecutive positive integers is 306. Find the integers. (a) 16 and 14 (c) 14 and 16	(b) 15 and 17 (d) 17 and 18	1
30	In a rectangular part of dimensions 50 m × 40 m a rectangular pond is constructed so that the area of grass strip of uniform breadth surrounding the pond would be 1184 m². Find the length and breadth of the pond. 	(a) 34 m, 24 m (c) None of these	(b) 44 m, 33 m 1



CLASS
9th



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NEPS 93%



ARSH TIWARI
DPS B 92.4%



KINJAL MISHRA
KV KUSM 91%



SANIYA AGRAWAL
DDM KORBA 89%



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CLASS
10th



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CLASS
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VEDANT SINGH
St. PALLOTI 80%

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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





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IMPORTANT MCQ'S - MATHS (10TH GRADE)

QUADRATIC EQUATION

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