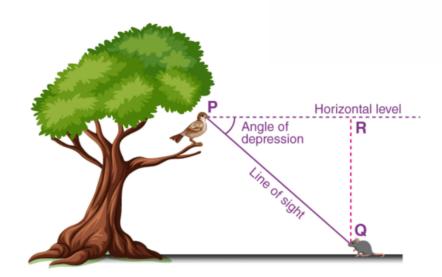


IMPORTANT MCQ'S - MATHS (10TH GRADE)



APPLICATIONS TRIGONOMETRY



This softcopy belongs to:

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



Er. Sonal Agrawal Sir

Ex. Scientist, BARC Mumbai





10th - Maths

SN			Mark		
1	An observer 1.5 m tall is 28.5 m away from a chimney. The angle of elevation of the top of the chimney from her eyes is 45° . What is the height of the chimney?				
	(a) 51.9m (b) 28.5m				
	(c) 30m (d) NONE OF THESE				
2	A		1		
	B 20	30° C			
		20 m long rope, which is tightly stretched and tied from the top of a Find the height of the pole, if the angle made by the rope with the			
	(a) 5 m	(b) 20 m			
	(c) 15 m	(d) 10 m			
	The angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower, is 30° . Find the height of the tower.				
3	4.0				
5	(a) $\frac{10}{\sqrt{3}}$ m	(b) 10 m			
3	(a) $\frac{10}{\sqrt{3}}$ m (c) $10\sqrt{3}$ m	(b) 10 m (d) NONE OF THESE			
4	(c) $10\sqrt{3}$ m	• •	2		
	(c) $10\sqrt{3}$ m	(d) NONE OF THESE	2		

	60° with the wall, find the height of the wall.				
	(a) $\frac{2}{25}$ m	(b) $-\frac{7}{2}$ m			
	(c) $\frac{15}{2}$ m	(d) $-\frac{1}{2}$ m			
6	An observer 1.5 metres tall is 20.5 metres away from a tower 22 metres high. Determine the angle of elevation of the top of the tower from the eye of the observer.				
	(a) 45°	(b) 30°			
	(c) 70°	(d) 90°			
7	The line drawn from the eye of an observer to the point in the object viewed by the observer, is known as?				
	(a) Line of sight	(b) Angle of elevation			
	(c) Angle of depression	(d) NONE OF THESE			
8	The angle formed by the line of sight with the horizontal when the point on the object which is being viewed is above the horizontal level, is known as?				
	(a) Line of sight	(b) Angle of elevation			
	(c) Angle of depression	(d) NONE OF THESE			
9	The angle formed by the line of sight with the horizontal when the point on the object which is being viewed is below the horizontal level, is known as?				
	(a) Line of sight	(b) Angle of elevation			
	(c) Angle of depression	(d) NONE OF THESE			
10	A tower stands vertically on the ground. From a point on the ground, which is 15 m away from the foot of the tower, the angle of elevation of the top of the tower is found to be 60° . Find the height of the tower.				
	(a) 15 m	(b) $15\sqrt{3}$ m			
	(c) $\frac{15}{\sqrt{3}}$ m	(d) NONE OF THESE			
11			2		

HEIGHTS EDUCATION

Classes: VIIIVIIIIIXIXIXIIXII(CBSE)



Q SEARCH



Er. Sonal Kumar Agrawal

■B.E., M.Tech.



Er. Neha Agrawal

B.E., M.Tech.

Renowned Faculty Raipur

And Team

Transport Facility Available





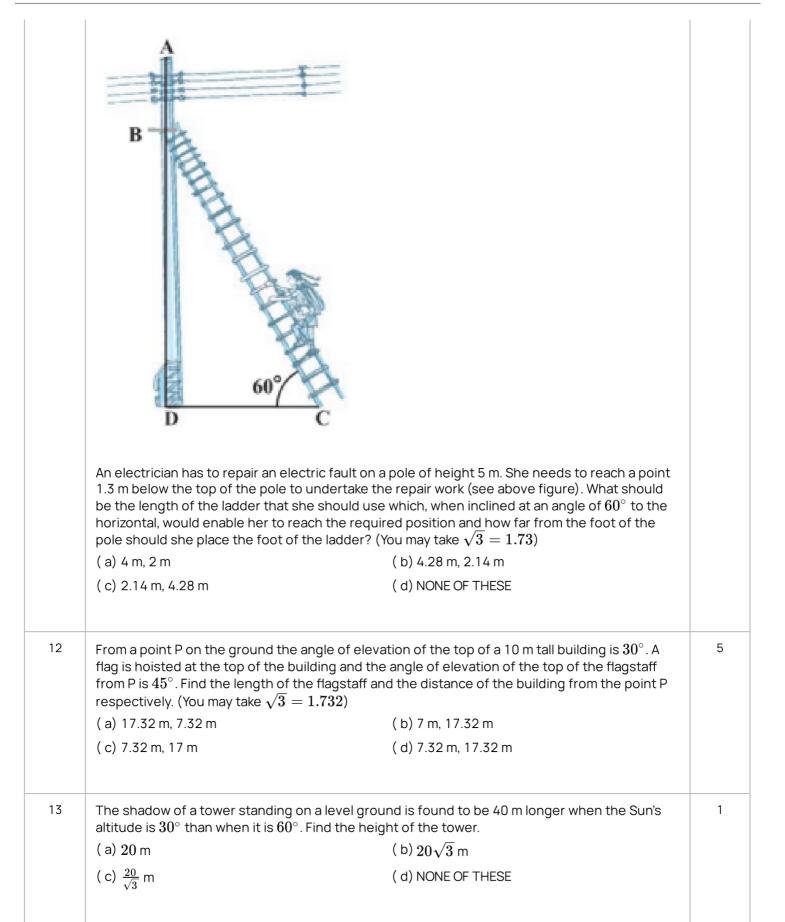
(2) (2) 8234027591







HEIGHTS EDUCATION KORBA https://www.hekorba.in





14	From a point on a bridge across a river, the angles of depression of the banks on opposite sides of the river are 30° and 45° , respectively. If the bridge is at a height of 3 m from the banks, find the width of the river.			
	(a) $3\left(\sqrt{3}+1 ight)$ m	(b) $\sqrt{3}+1$ m		
	(c) $\frac{3}{\left(\sqrt{3}+1\right)}$ m	(d) NONE OF THESE		
15	A tree breaks due to storm and the broken part bends so that the top of the tree touches the ground making an angle 30° with it. The distance between the foot of the tree to the point where the top touches the ground is 8 m. Find the height of the tree.			
	(a) 8 m	(b) $8\sqrt{3}$ m		
	(c) $\frac{8}{\sqrt{3}}$ m	(d) NONE OF THESE		
16	A 1.5 m tall boy is standing at some distance from a 30 m tall building. The angle of elevation from his eyes to the top of the building increases from 30° to 60° as he walks towards the building. Find the distance he walked towards the building.			
	(a) 19 m	(b) $19\sqrt{3}$ m		
	(c) $\frac{19}{\sqrt{3}}$ m	(d) NONE OF THESE		
17	From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.			
	(a) $20\left(\sqrt{3}-1 ight)$ m	(b) $20\left(\sqrt{3}+1 ight)$ m		
	(c) $\left(\sqrt{3}-1\right)$ m	(d) NONE OF THESE		
18			5	
	$D \xrightarrow{30^{\circ}} C$	60° B		
	A TV tower stands vertically on a bank of a canal. From a point on the other bank directly opposite the tower, the angle of elevation of the top of the tower is 60° . From another point 20 m away from this point on the line joining this point to the foot of the tower, the angle of			

	elevation of the top of the tower the width of the canal.	is 30° (see figure above). Find the height of the tower and		
	(a) $10\sqrt{3}m, 10m$	(b) $rac{10}{\sqrt{3}}m, 10\sqrt{3}m$		
	(c) $10\sqrt{3}m, 10\sqrt{3}m$	(d) None of these		
19	A 1.2 m tall girl spots a balloon moving with the wind in a horizontal line at a height of 88.2 m from the ground. The angle of elevation of the balloon from the eyes of the girl at any instant is 60°. After some time, the angle of elevation reduces to 30° (see above figure). Find the distance travelled by the balloon during the interval.			
	(a) $\frac{294}{5\sqrt{3}}$ m	(b) $58\sqrt{3}$ m		
	(c) $\frac{294}{5}$ m	(d) 294 m		
20	A straight highway leads to the foot of a tower. A man standing at the top of the tower observes a car at an angle of depression of 30° , which is approaching the foot of the tower with a uniform speed. Six seconds later, the angle of depression of the car is found to be 60° . Find the time taken by the car to reach the foot of the tower from this point.			
		(15) 5 5 5 5 5 5 5		
	(a) 2 seconds	(b) 5 second		





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%

ACHIVERS 2022 - 23 KORBA BRANCH

ACHIVERS BILASPUR BRANCH



SHUBODH RANJAN

MANU KASHYAP

RAHUL KUMAR

IIT BOMBEY



ARVIND KUMAR
IISC BANGALORE

SUSHEELA SINGH

P. CHAITANYA

IIT BOMBEY



MANISH SINGH



AVINASH KR. SAHU IIT KHARAGPUR



ATUL BANJARE



VIBHA RANJAN



PRAKHAR JAIN
IISC BANGALORE



ANKUR GUPTA
IIIT 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

11111111





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



धिलासपुर | छात्र मनु करयम और मनीष कुमार सिंह का चयन इंटेल प्राइवेट लिमिटेड के लिए हुआ है। कंपनी इन छात्रों को सालाना 21 लाख रुपए का पैकंज दे रही है। ये दोनों छात्र सत्र 2017 में सीयू के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियिंग विभाग से बीटेक की उपाधि प्राप्त की। वर्तमान में ये भारतीय प्रौद्योगिक स्वाप्त (आईआईटी) दिल्ली में एमटेक कर रहे हैं। इंटेल कॉरपोरेशन एक अमेरिकी बहुराय्ट्रीय कंपनी है। सिलिकॉन वैली में सांता कलार स्थित इस कंपनी का भारत में मह्यालय केंगलह है। Our Students from Bilaspur Centre







IMPORTANT MCQ'S - MATHS (10TH GRADE)

APPLICATION OF TRIGONOMETRY

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