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Right triangle worksheet word problems

If you see this message, it means we have trouble loading external resources on our site. If you are behind the Web filter, please make sure to unblock the domains *.kastatic.org and*.kasandbox.org. Question 1: The height angle above the building at a distance of 50 meters from his foot on a horizontal plane found to be 60 degrees. The height of the building created question 2: a ladder placed on the wall so that it reaches the top of the wall from a height of 6 m and the ladder tilts at an angle of 60 degrees. Find how far the ladder is from the foot of the wall. Question 3: The series of kite is 100 meters long and makes a angle of 60 degrees with horizontal. Find the height of a kite, assuming that there is no grace period in the chain. Question 4: From the top of the tower 30 meters high a man is watching the base of a tree at a depressed angle measuring 30 degrees. Find the distance between the tree and the tower. Question 5: A man wants to determine the height of a light house. He measured the angle in A and found that Tan A is equal to 3/4. What is the height of the light house if a 40 meters from the base? Question 6: The ladder is tilted against the vertical wall makes a 20 degree angle with the ground. The foot of the ladder is 3 metres from the wall. find the length of the ladder. Question 7: A kite flies at an altitude of 65 m attached to a chain tilting to 31 degrees to the horizontal. What is the length of the chain? Question 8: The length of the chain between a kite and the point on the ground is 90 m. If the chain is making an angle of the year with the ground level so that tan = 15/8, how will a high kite be? Question 9: An aircraft observed to be approaching the air point. It is 12 km from the point of the observation and makes an angle of height of 50 degrees. Find a height above the ground. Question 10: The balloon is connected to the meteorological station by a cable of 200 meters long tilted at an angle of 60 degrees. Find the balloon height from the ground. (Imagine that there is no grace period in the cable) answers question 1: the height angle of the top of the building at a distance of 50 meters from his foot on a horizontal plane found to be 60 degrees. Create the height of the building solution: now we need to find along the side AB.tanbyte = opposite side / side adjacent 60 degree = AB / BC√3 = AB / 50√3 x 50 = ABAB = 50√3 Rounding value √3 is 1.1.3 732AB = 50 (1.732) AB = 86.6 mSo, the height of the building is 86.6 m.Question 2: Ladder placed against the wall so that it reaches the top of the wall from a height of 6 m and the ladder tilts at an angle of 60 degrees. Find how far the ladder is from the foot of the wall. Solution: Here AB represents the height of the wall, BC represents the distance between the wall and the foot of the ladder and AC represents the length The right triangle ABC, the opposite side of the 60 degree angle is known as the opposite side (AB), the side that is called the opposite 90 degree side chord (AC) and the remaining side is called the adjacent side (BC). Now, we need to find the distance between the foot of the ladder and the wall. That is, we have to find the length of BC.tan = the opposite side/adjacent 60 degrees = AB/BC√3 = 6/BCBC = 6/√3BC = (6/√3) x (√3/√ 3)3)BC = (6√3)/3BC = 2√3Value The √3 = 1.732BC = 2 (1.732) BC = 3.464 m The distance between the foot of the ladder and the wall is 3.464 m.Question 3: The series of kite is 100 meters long and makes a 60 degree angle with horizontal. Find the height of a kite, assuming that there is no grace period in the chain. Solution: Now we need to find a high AB side. Sin = opposite side/tendon sidesininternational = AB/ACsin 60° = AB/100√3/2 = AB/100 (√3/2) x 100 = ABAB = 50 √3 mezzo, kite height from ground 50 √3 m.Question 4: From the top of the tower 30 meters and height of a man watching the base of a tree at a depressed angle measuring 30 degrees. Find the distance between the tree and the tower. Solution: Here AB represents the height of the tower, BC represents the distance between the foot of the tower and the tree stall. Now we need to find the distance between the foot of the tower at the foot of the tree (BC √√ √). He measured the angle in A and found that Tan A is equal to 3/4. What is the height of the light house if a 40 meters from the base? Solution: Now we need to find the height of the house of light (BC).Tana = opposite side / neighborside sidetanA = BC / ABGiven: Tana = 3/43/4 = BC/40 = 4BC x 4BC = (3 x 40)/4BC = (3 x 10) BC = 30 m so, the height of the light house is 30 m. Question 6: A man wants to determine the height of the light house. It's a ladder tilted against a vertical wall that makes an angle of 20 degrees with the ground. The foot of the ladder is 3 metres from the wall. find the length of the ladder. Solution: Now we need to find the length of the ladder (AC). Cos = next side / chord sideCos φ = BC / ACCos 20 ° = 3/AC0.9396 = 3/ACAC = 3/0.9396AC = 3.1925So, the length of the ladder is 3.192 m.Question 7: A kite flying at an altitude of 65 m attached to a chain tilted at 31 degrees to horizontal. What is the length of the chain? Solution: Now we need to find the length of the AC series. Sin = opposite side/side chordSin = AB/ACSin 31° = AB/AC0.5150 = 65/ACAC = 65/0.5150AC = 126.2 mHence, the length of the chain is 126.2 m. Question 8: The length of the chain between a kite and the point on the ground is 90 m. If the chain is making an angle with the ground level so that tan = 15/8, how will a high kite be? Solution: Now we need to find the length of the ab ----- √ √ √ -----, Sin = 15/17But, sin φ = opposite side/ /tinat side = AB/ACAB/AC = 15/17AB/90 = 15/17AB = (15 x 90) / 17AB = 79.415So, height of tower 79.41 [M.S.] 9: Aircraft observed to be approaching air point. It is 12 km from the point of the observation and makes an angle of height of 50 degrees. Find a height above the ground. Solution: Now we need to find along the AB side. from the figure given above, AB stands for plane height above ground. Sin = opposite side/ string sidesin 50° = AB/AC0.7660 = h/120.7660 x 12 = hh = 9.192 kmSo, the plane above ground height is 9.192 km. Question 10: The balloon is connected to the meteorological station by a cable of 200 meters long tilted at an angle of 60 degrees. Find the balloon height from the ground. (Imagine that there is no grace period in the cable) solution: Now we need to find along the AB side. from the above figure, AB symbolizes the height of the balloon above the ground. Sin = opposite side / string side sine φ = AB/ ACsin 60° = AB/200√3/2 = AB/200AB = (√3/2) x 200AB = 100√ the value of approximate √3 is 1.732AB = 100 (1.732) AB = 173.2 miso, balloon height from ground is 173.2 m. Apart from the stuff in this section, if you need any other things in mathematics, please use google custom search here. If you have any feedback about our math content, please email us: v4formath@gmail.comWe always appreciate your feedback. You can also visit the following web pages on different things in mathematics. 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Using 0, 1, 2, 3Sum of all four numbers three numbers formed using 1, 2, 5, 6 copyright onlinemath4all.com SBI! SBI!

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