

Who Turns Out the Lights on Halloween?

Cross out the letters above each correct answer. Then, when you finish, write the remaining letters in the spaces of the blank arid below.



so	TH	AC	AT	EB	EL	ME	AB	IG	ET	00
42.5 m	22.5 ft	20.6 m	5.0 cm	130.5 ft	128.1 ft	92.51	19.0 ft	4.7 cm	16.1 mi	298.57
HT	OP	sw	AY	TIN_	QU	IT	UP	MU	СН	ON
55.4 in.	9.42	20.3 mi	24.4 mi	5.62	37.8 ft	38.1 m	17.1 ft	52.0 in.	95.32	5.7 in.
	TTT				-		SOLUTION CONTRACTOR	THE PERSON NAMED IN COLUMN	T	<u> </u>
			1 1	1 1	- 1	1 1	1 1			

In exercises 1-4, solve the equation. Round your solution to the nearest two decimal places (0.01).

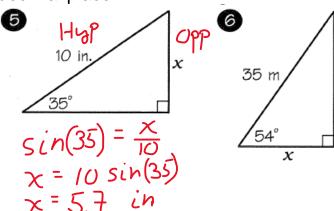
1
$$\sin 22^\circ = \frac{x}{15}$$
 2 $\tan 75^\circ = \frac{n}{80}$ **3** $\sin 48^\circ = \frac{7}{a}$ **4** $\cos 6^\circ = \frac{92}{k}$

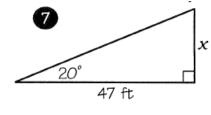
$$2 \tan 75^{\circ} = \frac{n}{80}$$

$$3 \sin 48^{\circ} = \frac{7}{a}$$

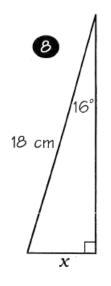
$$4 \cos 6^{\circ} = \frac{92}{k}$$

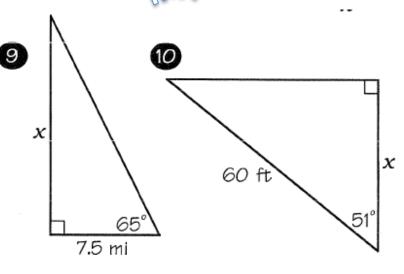
In exercises 5 -12, find the length of the side labeled x. Round to one decimal place.

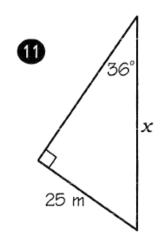


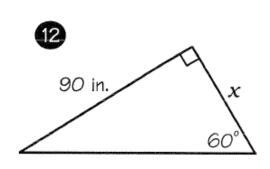


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In Exercises 13-15, find the required length. Round to one decimal place.

13 When a 20-ft ladder is leaned against a wall, it makes a 72° angle with the ground. How high up on the wall does the ladder reach?



14 A ship is sailing toward a small island 700 mi away. If the ship is 2° off course, by how many miles will it miss the island?

