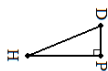
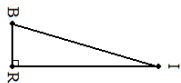


In the triangle below $m\angle P = 90^\circ$, $DP = 15$, and $HP = 36$.



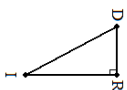
- Which of the following is true?
- a. $DH = 36$
 - b. $DH = 41$
 - c. $DH = 38$
 - d. $DH = 39$

In the triangle below $m\angle R = 90^\circ$, $BR = 28$, and $IR = 96$.



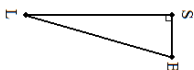
- Which of the following is true?
- a. $BI = 97$
 - b. $BI = 100$
 - c. $BI = 102$
 - d. $BI = 101$

In the triangle below $m\angle R = 90^\circ$, $DR = 32$, and $IR = 60$.



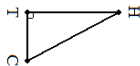
- Which of the following is true?
- a. $DI = 68$
 - b. $DI = 67$
 - c. $DI = 65$
 - d. $DI = 66$

In the triangle below $m\angle S = 90^\circ$, $BL = 75$, and $BS = 21$.



- Which of the following is true?
- a. $IS = 75$
 - b. $IS = 73$
 - c. $IS = 72$
 - d. $IS = 74$

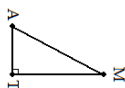
In the triangle below $m\angle T = 90^\circ$, $CH = 68$, and $CT = 32$.



Which of the following is true?

- a. $HT = 62$
- b. $HT = 60$
- c. $HT = 59$
- d. $HT = 63$

In the triangle below $m\angle T = 90^\circ$, $AM = 34$, and $AT = 16$.



Which of the following is true?

- a. $MT = 32$
- b. $MT = 27$
- c. $MT = 30$
- d. $MT = 31$

For safety reasons, the base of a 31-foot ladder should be at least 11 feet from the wall. How high can the 31-foot ladder safely reach? Express your answer as the number of feet to the nearest tenth.

For safety reasons, the base of a 21-foot ladder should be at least 7 feet from the wall. How high can the 21-foot ladder safely reach? Express your answer as the number of feet to the nearest tenth.

A state in the country of Hugation has a rectangular shape. If the state measures 216 miles by 328 miles, how many miles is the length of its diagonal to the nearest tenth?

A state in the country of San Steve has a rectangular shape. If the state measures 281 miles by 200 miles, how many miles is the length of its diagonal to the nearest tenth?

A hiker walked 6 miles north and then 12 miles west. How many miles is the hiker from their starting location to the nearest tenth?

A hiker walked 13 miles east and then 15 miles north. How many miles is the hiker from their starting location to the nearest tenth?

A hiker walked 17 miles west and then 17 miles north. How many miles is the hiker from their starting location to the nearest tenth?

For safety reasons, the base of a 16-foot ladder should be at least 6 feet from the wall. How high can the 16-foot ladder safely reach? Express your answer as the number of feet to the nearest tenth.