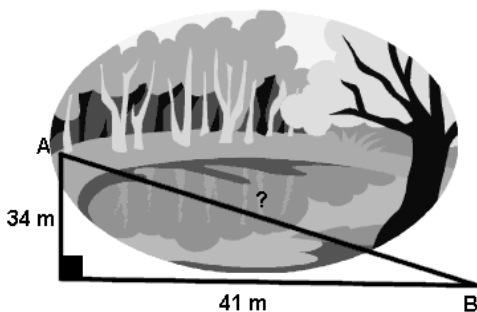


Working with Pythagorean Theorem

1.



Choose:

- ☐ 22
 - ☐ 34
 - ☐ 53
 - ☐ 75
-

To get from point A to point B you must avoid walking through a pond. To avoid the pond, you must walk 34 meters south and 41 meters east. To the *nearest meter*, how many meters would be saved if it were possible to walk through the pond? Show steps.

2.



A baseball diamond is a square with sides of 90 feet. What is the shortest distance, to the *nearest tenth* of a foot, between first base and third base? Show steps.

Choose:

- ☐ 90.0
 - ☐ 127.3
 - ☐ 180.0
 - ☐ 180.7
-

3.



A suitcase measures 24 inches long and 18 inches high. What is the diagonal length of the suitcase to the *nearest tenth* of an inch? Show steps.

Choose:

- ☐ 25
 - ☐ 15.9
 - ☐ 26.5
 - ☐ 30.0
-

4.



In a computer catalog, a computer monitor is listed as being 19 inches. This distance is the diagonal distance across the screen. If the screen measures 10 inches in height, what is the actual width of the screen to the *nearest inch*? Show steps.

Choose:

- ☐ 10
 - ☐ 14
 - ☐ 16
 - ☐ 19
-

5.



The older floppy diskettes measured 5 and $\frac{1}{4}$ inches on each side. What was the diagonal length of the diskette to the *nearest tenth* of an inch? Show steps.

Choose:

- ☐ 5.3
- ☐ 6.5
- ☐ 7.4
- ☒ 7.6

6.



Ms. Green tells you that a right triangle has a hypotenuse of 13 and a leg of 5. She asks you to find the other leg of the triangle without using paper and pencil. What is your answer? Show steps.

Choose:

- ☐ 5
- ☐ 8
- ☐ 10
- ☒ 12

7.

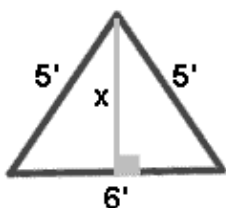


Two joggers run 8 miles north and then 5 miles west. What is the shortest distance, to the *nearest tenth* of a mile, they must travel to return to their starting point? Show steps.

Choose:

- ☐ 8.4
- ☐ 9.5
- ☐ 9.4
- ☒ 13.1

8.



Oscar's dog house is shaped like a tent. The slanted sides are both 5 feet long and the bottom of the house is 6 feet across. What is the height of his dog house, in feet, at its tallest point? Show steps.

Choose:

- ☐ 3
- ☐ 4
- ☐ 4.5
- ☒ 5



Answers: 1. 22 m; 2. 127.3 feet; 3. 30 inches; 4. 16 inches; 5. 7.4 inches; 6. 12; 7. 9.4 miles; 8. 4 feet