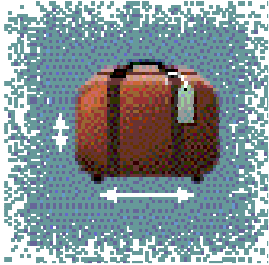


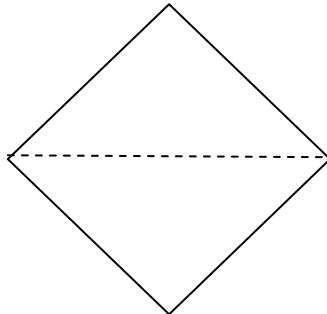
Name: _____
Pythagorean Theorem Worksheet

Show all work. You may want to draw your own pictures, or add to the ones already there.

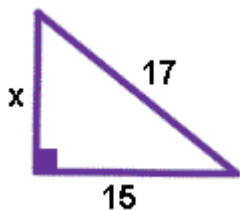
1. A suitcase measures 24 inches long and 18 inches high. What is the diagonal length of the suitcase?



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?



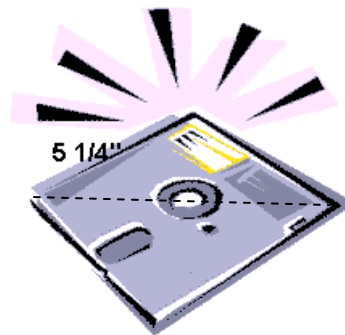
3. Find x .



4. 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. What is your answer?



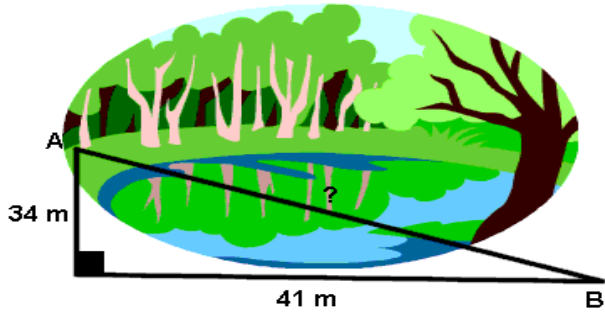
5. The older floppy diskettes were square and measured 5.25 inches on each side. What was the diagonal length of the diskette to the nearest tenth of an inch?



6. 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?



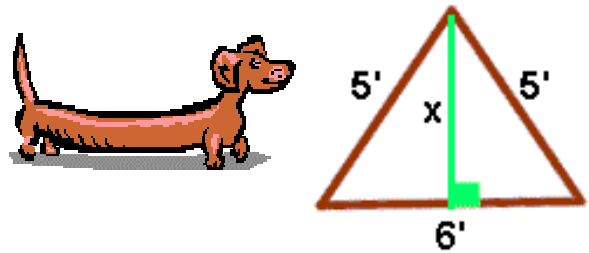
7. To get from point A to point B you must avoid walking through a pond. To avoid the pond, you must walk 34 meters south and 41 meters east. To the *nearest meter*, **how many meters would be saved** if it were possible to walk through the pond?



8. 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?



9. 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?



10. Seth made a small table for his workroom. The sides of the table are 36" and 18". If the diagonal of the table measures 43", is the table rectangular? A table which is "rectangular" has right angles at the corners.



The lengths of a rectangular table must form a

_____.