Name : _____
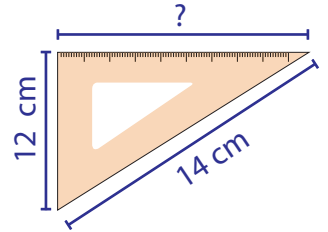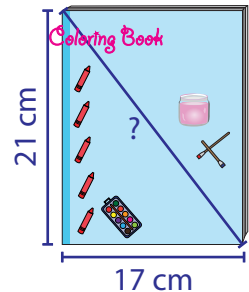
Pythagorean Theorem

Solve the word problems. Round the answer to the nearest tenth.

1) Ruth develops a blueprint with the help of a triangle. The longest side of the instrument measures 14 cm and one of the sides measures 12 cm. Determine the length of the other side of the instrument?
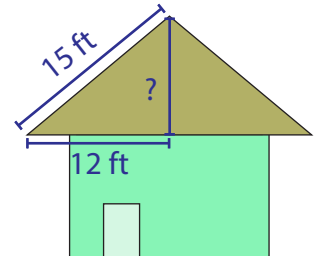
_____

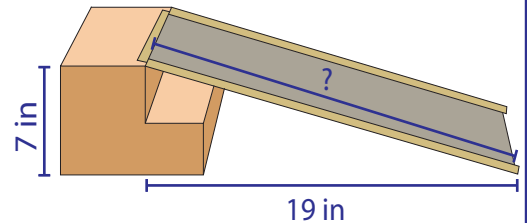2) Carol bought a coloring book. It is 21 cm long and 17 cm wide. What is the diagonal length of the book?

_____

3) The slope of the rafter is 15 feet. Half the run of the rafter measures 12 feet. Find the height of the ridge from the base?
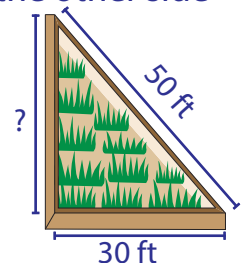
_____

4) A ramp is elevated to a height of 7 inches from the base. The horizontal distance between the lower end of the ramp and the base is 19 inches, as shown in the figure. What is the length of the ramp?

_____

5) Ashley has a right triangular garden in her backyard. The longest side of the garden measures 50 feet. One of the sides is 30 feet long. Find the length of the other side of the garden.
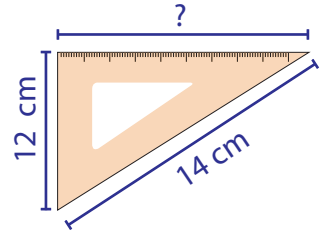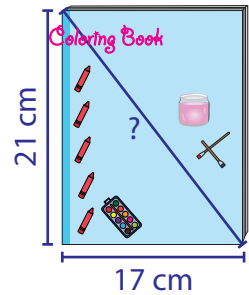
_____

Answer Key

Pythagorean Theorem

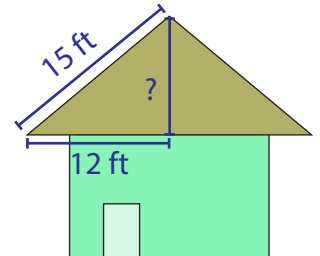Solve the word problems. Round the answer to the nearest tenth.

1) Ruth develops a blueprint with the help of a triangle. The longest side of the instrument measures 14 cm and one of the sides measures 12 cm. Determine the length of the other side of the instrument?
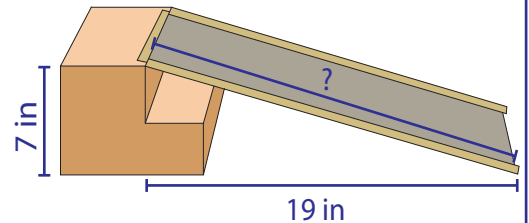
7.2 cm

2) Carol bought a coloring book. It is 21 cm long and 17 cm wide. What is the diagonal length of the book?
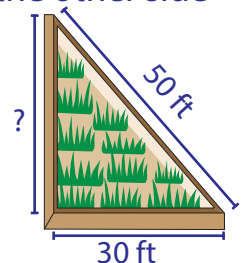
27 cm

3) The slope of the rafter is 15 feet. Half the run of the rafter measures 12 feet. Find the height of the ridge from the base?

9 ft

4) A ramp is elevated to a height of 7 inches from the base. The horizontal distance between the lower end of the ramp and the base is 19 inches, as shown in the figure. What is the length of the ramp?

20.2 in

5) Ashley has a right triangular garden in her backyard. The longest side of the garden measures 50 feet. One of the sides is 30 feet long. Find the length of the other side of the garden.

40 ft