

Name \_\_\_\_\_

Date \_\_\_\_\_

### Working with Right Triangles - Independent Practice Worksheet

Complete all the problems.

1. Julia drives 10 km due west of her home. Then she heads 15 km south. What is the total distance that she has travelled from his house?
2. In a right angle triangle, the side adjacent to the  $25^\circ$  angle is 15 cm long. What is the length of the side opposite the  $25^\circ$  angle to the nearest centimeter?
3. Mr. Robinson leans his ladder 12 meters high on the house. The feet of the ladder are 12 meters from the house. Approximately how long is the ladder?
4. Jack's room is 20 by 25 feet. Mark draws a line directly from one corner of the room to the opposite corner of the room. How long is the line?
5. Jackson bought an ultra-slim Television. The screen measures 13 cm in length and 12 cm in width. Television screen sizes are decided by the length of the diagonal. What is size of this screen? Round your answer to the nearest whole number.
6. A handicap camp ramp is located at the back of the building. The ramp has a  $55^\circ$  incline. The height of the ramp is 15m. How long is the ramp?
7. Jacob lives in an apartment. He has to tie an 85-meter long rope at the distance of 90 meter from the building to its roof. What is the height of the building?
8. There is a cycle ramp at the park. The ramp is mostly used by skateboarders. The incline of the ramp is  $32^\circ$ . The height of the ramp is 10m. How long is the ramp?
9. A 10 feet flag stands. Point P is the top of flag, point B is End of the flag's shadow and point C is the bottom of flag. The distance from point A to Point C is a total of 15 feet. What is the length of the distance from point B to C?
10. Two hockey players are trying to kill some time. They are throwing their mini-sticks against the building from a distance to see who can get there stick to stand up the tallest. The winner was lying at a 43 degree angle. If the mini-stick was 9 inches tall, how high up on the building did the stick touch?

