

Name: _____

Date: _____

Word problems

Draw a right triangle for each problem, then solve it.

1. A rectangle is 5 cm by 12 cm. How long is its diagonal?

Answer: _____

2. A hiker walks 3 km north and then 4 km east. How far is she from her starting point in a straight line?

Answer: _____

3. A rectangle is 9 cm by 12 cm. How long is its diagonal?

Answer: _____

4. A hiker walks 6 km north and then 8 km east. How far is she from her starting point in a straight line?

Answer: _____

5. A hiker walks 9 km north and then 12 km east. How far is she from her starting point in a straight line?

Answer: _____

6. A 25-foot ladder leans against a wall. Its base is 7 feet from the wall. How high up the wall does it reach?

Answer: _____

7. A 10-foot ladder leans against a wall. Its base is 6 feet from the wall. How high up the wall does it reach?

Answer: _____

8. A 17-foot ladder leans against a wall. Its base is 8 feet from the wall. How high up the wall does it reach?

Answer: _____

9. A 13-foot ladder leans against a wall. Its base is 5 feet from the wall. How high up the wall does it reach?

Answer: _____

10. A rectangle is 6 cm by 8 cm. How long is its diagonal?

Answer: _____

Pythagorean Theorem: Answer Key

1. 13 cm

2. 5 km

3. 15 cm

4. 10 km

5. 15 km

6. 24 feet

7. 8 feet

8. 15 feet

9. 12 feet

10. 10 cm