Name: _____ Date: _____

Pythagorean Theorem Application – Medium

Solve each problem. Round to the nearest tenth.

1. A gate is 17 ft wide and 20 ft tall. How long is a board nailed diagonally across it?

2. A gate is 19 ft wide and 5 ft tall. How long is a board nailed diagonally across it?

3. A tablet screen is 14 cm wide and 6 cm tall. Find the length of its diagonal.

4. A kite is 20 m above the ground, directly above a point 18 m from the person flying it. How long is the string?

5. A tablet screen is 5 cm wide and 8 cm tall. Find the length of its diagonal.

6. A kite is 4 m above the ground, directly above a point 10 m from the person flying it. How long is the string?

Name: _____ Date: _____

Fresh Math

Pythagorean Theorem Application – Medium

Solve each problem. Round to the nearest tenth.

7. A tablet screen is 8 cm wide and 20 cm tall. Find the length of its diagonal.

8. A kite is 15 m above the ground, directly above a point 3 m from the person flying it. How long is the string?

9. A park is a rectangle 90 m long and 190 m wide. How long is a path along its diagonal?

10. A tablet screen is 8 cm wide and 5 cm tall. Find the length of its diagonal.

11. A gate is 12 ft wide and 16 ft tall. How long is a board nailed diagonally across it?

12. A park is a rectangle 180 m long and 80 m wide. How long is a path along its diagonal?

Name: _____ Date: _____

Pythagorean Theorem Application – Medium

Solve each problem. Round to the nearest tenth.

13. A kite is 7 m above the ground, directly above a point 3 m from the person flying it. How long is the string?

14. A tablet screen is 12 cm wide and 12 cm tall. Find the length of its diagonal.

15. A gate is 20 ft wide and 6 ft tall. How long is a board nailed diagonally across it?

16. A kite is 13 m above the ground, directly above a point 11 m from the person flying it. How long is the string?

Pythagorean Theorem Application – Medium – Answer Key

1. A gate is 17 ft wide and 20 ft tall. How long is a board nailed diagonally across it?

   ≈ 26.2 ft

2. A gate is 19 ft wide and 5 ft tall. How long is a board nailed diagonally across it?

   ≈ 19.6 ft

3. A tablet screen is 14 cm wide and 6 cm tall. Find the length of its diagonal.

   ≈ 15.2 cm

4. A kite is 20 m above the ground, directly above a point 18 m from the person flying it. How long is the string?

   ≈ 26.9 m

5. A tablet screen is 5 cm wide and 8 cm tall. Find the length of its diagonal.

   ≈ 9.4 cm

6. A kite is 4 m above the ground, directly above a point 10 m from the person flying it. How long is the string?

   ≈ 10.8 m

Pythagorean Theorem Application – Medium – Answer Key

7. A tablet screen is 8 cm wide and 20 cm tall. Find the length of its diagonal.

   ≈ 21.5 cm

8. A kite is 15 m above the ground, directly above a point 3 m from the person flying it. How long is the string?

   ≈ 15.3 m

9. A park is a rectangle 90 m long and 190 m wide. How long is a path along its diagonal?

   ≈ 210.2 m

10. A tablet screen is 8 cm wide and 5 cm tall. Find the length of its diagonal.

    ≈ 9.4 cm

11. A gate is 12 ft wide and 16 ft tall. How long is a board nailed diagonally across it?

    ≈ 20.0 ft

12. A park is a rectangle 180 m long and 80 m wide. How long is a path along its diagonal?

    ≈ 197.0 m

Pythagorean Theorem Application – Medium – Answer Key

13. A kite is 7 m above the ground, directly above a point 3 m from the person flying it. How long is the string?

    ≈ 7.6 m

14. A tablet screen is 12 cm wide and 12 cm tall. Find the length of its diagonal.

    ≈ 17.0 cm

15. A gate is 20 ft wide and 6 ft tall. How long is a board nailed diagonally across it?

    ≈ 20.9 ft

16. A kite is 13 m above the ground, directly above a point 11 m from the person flying it. How long is the string?

    ≈ 17.0 m