**Pythagorean Theorem – sample MC Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2. A baseball diamond is a square with a side length of 90 feet. To the nearest foot, what is

 the distance between first base and third base?

2nd base

**A 810 ft**

**B 90 ft**

**C 180 ft**

**D 127 ft**

3rd base 1st base

 Home plate

3. A flower garden is in the shape of a right triangle. One leg of the triangle is 6 ft long and

 the hypotenuse is 12 ft long. What is the length of the other leg?

 A 14.6 ft

 B 10.4 ft

 C 13 ft

 D 12.8 ft

4. Which of the following sets of numbers represents a Pythagorean Triple?

 A { 10, 5, 12}

 B { 2, 4, 5}

 C {1, 2, 3 }

 D {14, 48, 50 }

5. Which of the following sets of numbers does NOT represent a Pythagorean Triple?

 A {34, 16, 30}

 B {10, 24, 26}

 C {19, 21, 23}

 D {5, 12, 13}

6. A right triangle has legs of lengths 9 cm and 12 cm. What is the length of the

 hypotenuse?

 A 15 cm

 B 22 cm

 C 25 cm

 D 14 cm

7. A triangle has legs which measure 15 inches and 20 inches. Find the length of the

 hypotenuse.

 A 28 inches

 B 32 inches

 C 13 inches

 D 25 inches

8. A 20-ft-long wire is used to support a television antenna. The wire is connected to the

 antenna 15 ft above the ground. How far away from the base of the tower will the other

 end of the wire be located?

 A 13.2 ft

 B 25 ft

 C 18 ft

 D 16.5 ft

9. Gina is making a quilt in the shape of a right triangle. The measurement of the diagonal

 of the quilt is 36 in. long. The width of the quilt is 15 in. long. What is the approximate

 length?

 A 27.3 in.

 B 32.7 in.

 C 19.6 in.

 D 29.9 in.

Complete the questions below:

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| Compare the following numbers using < or >.a) √8 √10 b) √25 6 c) 53 √144  | Find the value of: 42 ÷ 19 + 33 |