Name: _____ Date: _____

Fresh Math

Special Right Triangles

Solve for x. Show your work.

1. In a 45-45-90 triangle, each leg is 5. Find the hypotenuse.

2. In a 30-60-90 triangle, the short leg is 2. Find the long leg.

3. In a 45-45-90 triangle, each leg is 4. Find the hypotenuse.

4. In a 45-45-90 triangle, the hypotenuse is $9\sqrt{2}$. Find each leg.

5. In a 45-45-90 triangle, the hypotenuse is $5\sqrt{2}$. Find each leg.

6. In a 30-60-90 triangle, the short leg is 3. Find the hypotenuse.

7. In a 30-60-90 triangle, the short leg is 5. Find the hypotenuse.

8. In a 45-45-90 triangle, each leg is 9. Find the hypotenuse.

Special Right Triangles - Answer Key

1. In a 45-45-90 triangle, each leg is 5. Find the hypotenuse.

   $5\sqrt{2}$

2. In a 30-60-90 triangle, the short leg is 2. Find the long leg.

   $2\sqrt{3}$

3. In a 45-45-90 triangle, each leg is 4. Find the hypotenuse.

   $4\sqrt{2}$

4. In a 45-45-90 triangle, the hypotenuse is $9\sqrt{2}$. Find each leg.

   9

5. In a 45-45-90 triangle, the hypotenuse is $5\sqrt{2}$. Find each leg.

   5

6. In a 30-60-90 triangle, the short leg is 3. Find the hypotenuse.

   6

7. In a 30-60-90 triangle, the short leg is 5. Find the hypotenuse.

   10

8. In a 45-45-90 triangle, each leg is 9. Find the hypotenuse.

   $9\sqrt{2}$