Cornell Notes

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Name:		

Date:

Main Ideas/Questions

Title of Notes: Special Right Triangles

There are two types of special right triangles.

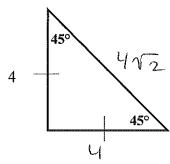
- $45^{\circ} 45^{\circ} 90^{\circ}$ (Right Isosceles Triangle)
- \bullet 30 $^{\circ}$ 60 $^{\circ}$ 90 $^{\circ}$

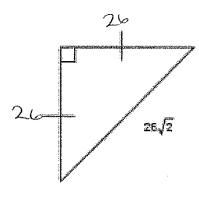
I. $45^{\circ} - 45^{\circ} - 90^{\circ}$ (Right Isosceles Triangle)

In an isosceles right triangle, the hypotenuse is $\sqrt{2}$ times as long as each leg. Formula

45	45	90
Ø	S	SV2

Ex. Find the missing legs

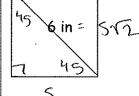




Practice

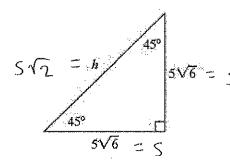
1. The diagonal of a square game board is 6 inches.

What is the length of one of its sides?



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2. Find *h*



$$5\sqrt{10} \cdot \sqrt{2} = 5\sqrt{2}$$

 $5\sqrt{12} = 5\sqrt{2}$
 $5\cdot 2\sqrt{3} = 5\sqrt{2}$
 $10\sqrt{3} = 5\sqrt{2}$
 $9\sqrt{3}$

Cornell Notes Title of Notes: Cont'd Main Ideas/Questions II. $30^{\circ} - 60^{\circ} - 90^{\circ}$ Triangle the hypotenuse is twice as long as the shorter leg and the longer leg is $\sqrt{3}$ times as the shorter leg. Formula 30 60 Ex. Find the missing legs. **Practice** 3, 14 60° 5. $3\sqrt{2}$ 60°