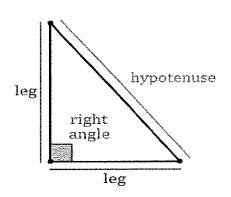
Right Triangle Terminology:

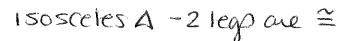


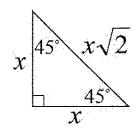
A <u>right triangle</u> is a triangle with a right angle. It has a hypotenuse and two legs.

The <u>hypotenuse</u> is the longest side of a right triangle and is directly across from the right angle.

There are two <u>legs</u> in a right triangle. The right angle is included between these two legs.

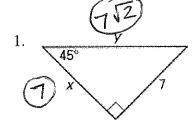
Special Right Triangles: 45°-45° - 90°



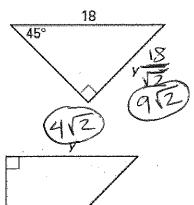


Hypotenuse = Leg $(\sqrt{2})$

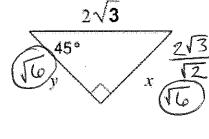
$$Leg = \frac{Hypotenuse}{\sqrt{2}}$$

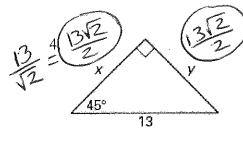


2.



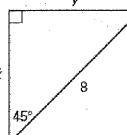
3.



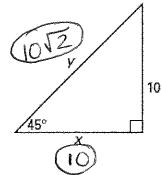


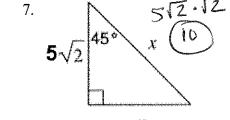
8 12 (NZ)

5.

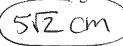


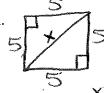
6.





8. The perimeter of a square is 20 cm. Find the length of a diagonal.

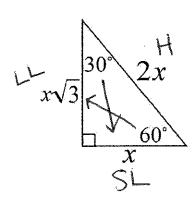




9. The diagonal of a square is 8 in.
Find the length of each side of the square.



Special Right Triangles: 30°-60° - 90°



Hypotenuse = 2 (Short Leg)

Short Leg =
$$\frac{Hypotenuse}{2}$$

Long Leg = Short Leg $(\sqrt{3})$

Short Leg =
$$\frac{Long \ Leg}{\sqrt{3}}$$

* Always Start with the short Leg SL/LL (3)

