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LESSON Practice A

4-4 Triangle Congruence: SSS and SAS

Name the included angle for each pair of sides.

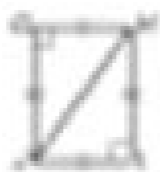
- \overline{PQ} and \overline{PR} _____
- \overline{PQ} and \overline{PR} _____
- \overline{PQ} and \overline{RQ} _____



Write SSS (Side-Side-Side Congruence) or SAS (Side-Angle-Side Congruence) next to the correct postulate.

- If three sides of one triangle are congruent to three sides of another triangle, then the triangles are congruent. _____
- If two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the triangles are congruent. _____

$GHIJ$ is a rectangle. A rectangle is a four-sided figure with four right angles and congruent opposite sides. For Exercises 6 and 7, fill in the blanks to show that $\triangle GHJ \cong \triangle IHI$ in two different ways.



- It is given that _____ and _____ are right angles and that $\overline{GH} \cong \overline{JI}$ and $\overline{GI} \cong \overline{HI}$. All right angles are congruent. So $\triangle GHJ \cong \triangle IHI$ by _____.
- It is given that $\overline{GH} \cong \overline{JI}$ and $\overline{GI} \cong \overline{HI}$. By the Reflexive Property of \cong , $\overline{HI} \cong \overline{HI}$. So $\triangle GHJ \cong \triangle IHI$ by _____.

U.S. President Harry Truman and British Prime Minister Winston Churchill both wore polka-dot bow ties while in office. A web-tied bow tie resembles two congruent triangles. Use the phrases from the word bank to complete this two-column proof.



$\angle ABE \cong \angle DBC$,
SAS,
 $\overline{BA} \cong \overline{BD}$,
 $\overline{BE} \cong \overline{BE}$

Given: $\overline{BA} \cong \overline{BD}$, $\overline{BE} \cong \overline{BE}$

Prove: $\triangle ABE \cong \triangle DBC$

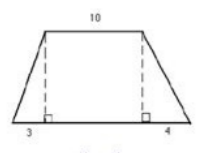
Proof:

Statements	Reasons
1. a. _____	1. Given
2. b. _____	2. Vert. \angle Thm.
3. $\triangle ABE \cong \triangle DBC$	3. c. _____

Math Word Problems with Solutions and Answers for Grade 10

Grade 10 math word problems with answers and solutions are presented.

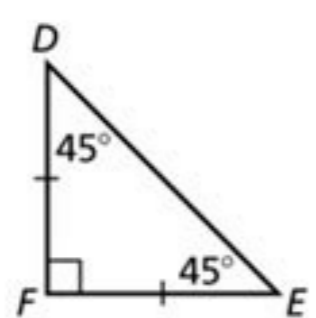
- A real estate agent received a 6% commission on the selling price of a house. If the commission was \$9,000, what was the selling price of the house?
- An electric motor makes 3,000 revolutions per minute. How many degrees does it rotate in one second?
- The area of a rectangular field is equal to 200 square meters. Its perimeter is equal to 170 meters. Find the length and width of the rectangle.
- The area of the $\triangle ABC$ shown below is equal to 270 square units. Find its perimeter and round your answer to the nearest unit.



Given $\triangle DEF$ is a 45° - 45° - 90° triangle.

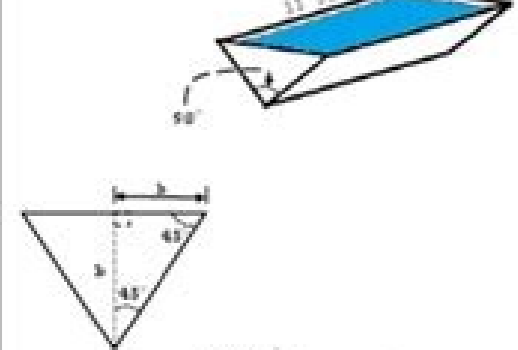
Prove The hypotenuse is $\sqrt{2}$ times as long as each leg.

Because $\triangle DEF$ is a 45° - 45° - 90° triangle, by the Converse of the Base Angles Theorem (Thm. 5.7), $\overline{DF} \cong \overline{FE}$. So, let $x = \overline{DF} = \overline{FE}$. By the Pythagorean Theorem (Thm. 9.1), $x^2 + x^2 = c^2$, where c is the length of the hypotenuse.



So, $2x^2 = c^2$ by the Distributive Property. Take the positive square root of each side to get $x\sqrt{2} = c$. So, the hypotenuse is $\sqrt{2}$ times as long as each leg.

1. A trough is formed by nailing together, edge to edge, two boards 11 ft. in length, so that the right section is a right triangle. If 15 gal. of water are poured into the trough and if the trough is held level so that a right section of the water is an isosceles right triangle, how deep is the water? (231 cu. in. = 1 gal.)



$$V_{\text{water}} = 15 \text{ gal} \left(\frac{231 \text{ in}^3}{1 \text{ gal}} \right) = 3465 \text{ in}^3$$

Let $b = \text{depth}$

$$V_{\text{trough}} = Bh$$

$$B = \frac{1}{2}(11)(11) = 60.5$$

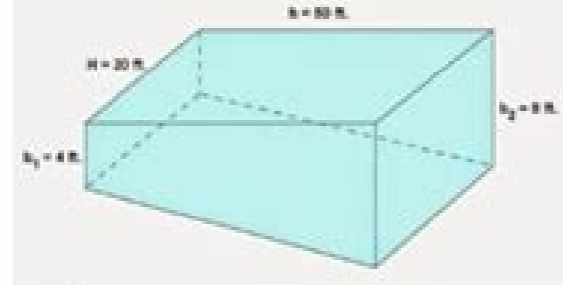
$$V = b^3/4$$

$$3465 \text{ in}^3 = b^3 \left[(11/4) \left(\frac{231}{1728} \right) \right]$$

$$3465 \text{ in}^3 = b^3 (132/n)$$

$$b = \sqrt[3]{\frac{3465 \text{ in}^3}{132/n}} = 5.1235 \text{ in}$$

2. Find the volume of water in a swimming pool with vertical ends and sides. The length measured at the water line is 50 ft. and the breadth is 20 ft. The bottom of the swimming pool is a plane sloping gradually downward so that the depth of the water at one end is 4 ft. and at the other end is 8 ft.



$$V_{\text{prism}} = Bh$$

$$V_{\text{water}} = V_{\text{pool}} = V_{\text{prism}} = \left[\frac{1}{2}(4 \text{ ft} + 8 \text{ ft})(20 \text{ ft}) \right] (50 \text{ ft})$$

$$V_{\text{water}} = 6000 \text{ ft}^3$$

On page 12, Theorem 1.22, the four points can also be collinear. Many of the evidence must be readable only from looking at the diagrams. Try again, "bd_saving_percent_off":{0}% off", "bd_js_total_basket_count":{0 plural, one {You have b>1

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