

BC ipotenusa

AB } CATETI  
AC }

$$BC^2 = AB^2 + AC^2$$

$$BC = \sqrt{AB^2 + AC^2}$$

FORMULE INVERSE

$$AB = \sqrt{BC^2 - AC^2}$$

$$AC = \sqrt{BC^2 - AB^2}$$



$$\begin{array}{l|l} AB = 12 \text{ cm} & P \\ BC = 20 \text{ cm} & A \end{array}$$

$$AC = \sqrt{BC^2 - AB^2} = \sqrt{20^2 - 12^2} = \sqrt{400 - 144} = \sqrt{256} = 16 \text{ cm}$$

$$A = \frac{AB \cdot AC}{2} = \frac{12 \cdot 16}{2} = 96 \text{ cm}^2$$

$$P = AB + BC + CA = 12 + 20 + 16 = 48 \text{ cm}$$

1: 4



$$\left. \begin{aligned} A &= 286 \text{ cm} \\ AB &= \frac{3}{4} AC \end{aligned} \right\} P$$

$$U^2 = 2 \cdot A : 12 = \frac{2 \cdot 286}{12} = 49 \text{ cm}^2$$

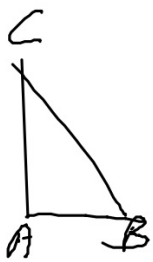
$$U = \sqrt{U^2} = \sqrt{49} = 7 \text{ cm}$$

$$AB = U \cdot 3 = 7 \cdot 3 = 21 \text{ cm}$$

$$AC = U \cdot 4 = 7 \cdot 4 = 28 \text{ cm}$$

$$BC = \sqrt{AB^2 + AC^2} = \sqrt{21^2 + 28^2} = \sqrt{441 + 784} = \sqrt{1225} = 35 \text{ cm}$$

$$P = AB + BC + AC = 21 + 35 + 28 = 84 \text{ cm}$$



$$\begin{array}{l} AB + BC = 126 \text{ cm} \\ AB = \frac{4}{5} BC \end{array} \quad \left| \begin{array}{l} P \\ A \end{array} \right.$$

$$\begin{array}{l} 1:7 \\ 1:10 \\ 1:14 \end{array}$$

$$AB:BC = 4:5$$

$$(AB+BC):BC = (4+5):5$$

$$126:BC = 9:5$$

$$BC = \frac{126 \cdot 5}{9} = 70 \text{ cm}$$

$$P = AB + BC + CA =$$

$$= 56 + 70 + 42 = 168 \text{ cm}$$

$$AB = (AB + BC) - BC = 126 - 70 = 56 \text{ cm}$$

$$AC = \sqrt{BC^2 - AB^2} = \sqrt{70^2 - 56^2} = \sqrt{4900 - 3136} = \sqrt{1764} = 42 \text{ cm}$$

$$A = \frac{AB \cdot AC}{2} = \frac{56 \cdot 42}{2} = 1176 \text{ cm}^2$$