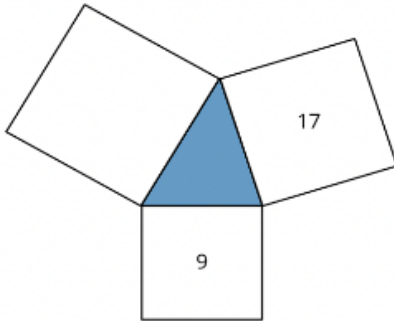


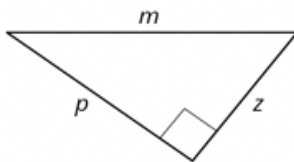
Output: Pythagorean Theorem

1. Here is a diagram of an acute triangle and three squares.



Priya says the area of the large unmarked square is 26 square units because $9 + 17 = 26$. Do you agree? Explain your reasoning.

2. m , p , and z represent the lengths of the three sides of this right triangle.



Select **all** the equations that represent the relationship between m , p , and z .

- A. $m^2 + p^2 = z^2$
 - B. $m^2 = p^2 + z^2$
 - C. $m^2 = z^2 + p^2$
 - D. $p^2 + m^2 = z^2$
 - E. $z^2 + p^2 = m^2$
 - F. $p^2 + z^2 = m^2$
3. The lengths of the three sides are given for several right triangles. For each, write an equation that expresses the relationship between the lengths of the three sides.
- a. 10, 6, 8
 - b. $\sqrt{5}, \sqrt{3}, \sqrt{8}$
 - c. $5, \sqrt{5}, \sqrt{30}$
 - d. $1, \sqrt{37}, 6$
 - e. $3, \sqrt{2}, \sqrt{7}$