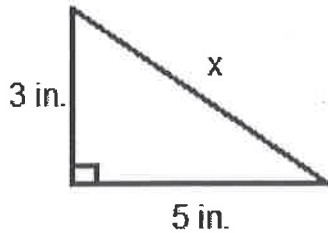


1. a) For the triangle below, solve for x , leaving your answer as a radical.



$$\begin{aligned}3^2 + 5^2 &= x^2 \\9 + 25 &= x^2 \\x^2 &= 34 \\x &= \sqrt{34}\end{aligned}$$

- b) What 2 whole numbers does x fall between?

$$25 \quad 34 \quad 36$$

$$5 < x < 6 \quad (\text{between } 5 \text{ and } 6)$$

2. In a class of 40 students, 28 students pass the class. Write the ratio of passing to non-passing students and reduce.

$$\frac{\text{passing}}{\text{non-passing}} = \frac{28}{40-28} = \frac{28 \div 4}{12 \div 4} = \frac{7}{3}$$