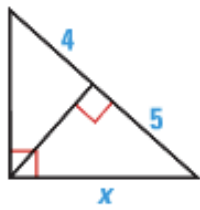


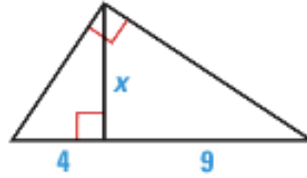
LEVEL: EMERGING

Directions: Find the **exact** value of the indicated variable.



1)

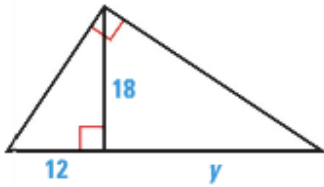
2)



$x = \underline{\hspace{2cm}}$

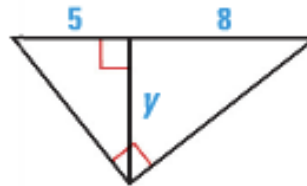
$x = \underline{\hspace{2cm}}$

3)



$y = \underline{\hspace{2cm}}$

4)

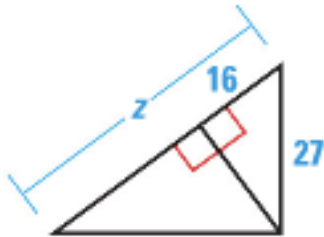


$y = \underline{\hspace{2cm}}$

LEVEL: PROFICIENT

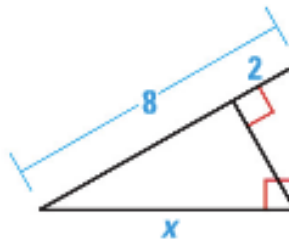
Directions: Find the **exact** value of the indicated variable.

5)



$x = \underline{\hspace{2cm}}$

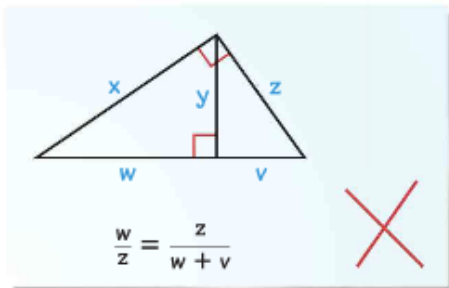
6)



$x = \underline{\hspace{2cm}}$

Directions: Describe and correct the error in writing a proportion for the given diagram.

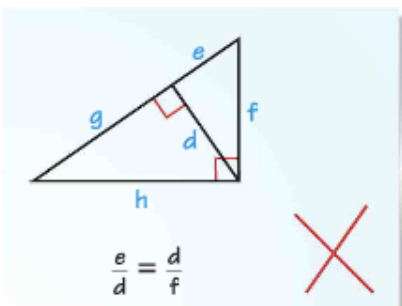
7)



Describe the error:

Correct work:

8)

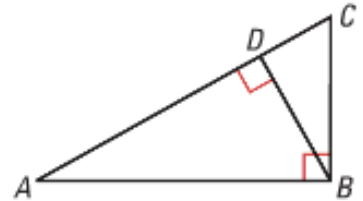


Describe the error:

Correct work:

9) Use the diagram at the right. Determine which proportion is false.

- Ⓐ $\frac{DB}{DC} = \frac{DA}{DB}$ Ⓑ $\frac{CA}{AB} = \frac{AB}{AD}$
 Ⓒ $\frac{CA}{BA} = \frac{BA}{CA}$ Ⓓ $\frac{DC}{BC} = \frac{BC}{CA}$



10) The peak of the doghouse shown forms a right angle. Use the given dimensions to find the height of the roof.

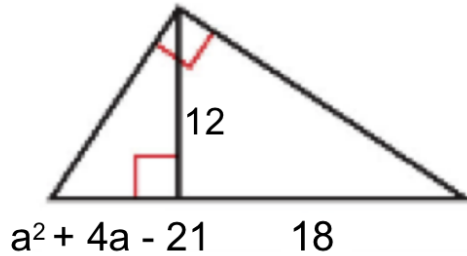


Roof Height: _____

LEVEL: MASTERY

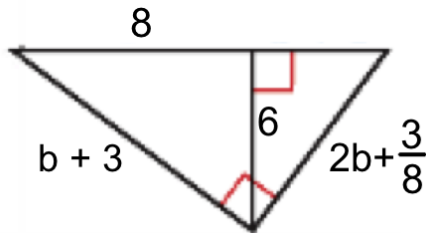
Directions: Find the indicated value(s). Round decimal answers to the nearest tenth.

11)



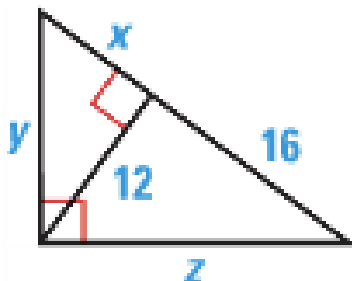
$a =$ _____

12)



$b =$ _____

13)



Sum of x , y , and $z =$ _____