

Geometric Mean Worksheet

Name: _____

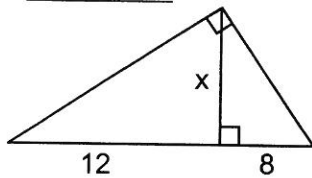
Write a proportion for each problem. Show all work for each problem.

No work = no credit. Round to tenths place

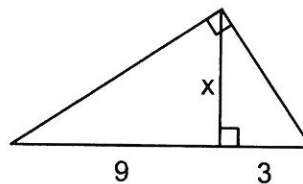
1. Find the geometric mean of 8 and 18.
2. Find the geometric mean of 20 and 25.
3. 15 is the geometric mean of 25 and what other number?
4. Find the geometric mean of 3 and 7.
5. 32 is the geometric mean of 16 and what other number?

Solve for the missing variable.

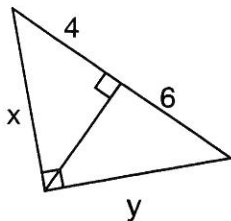
6. $x =$ _____



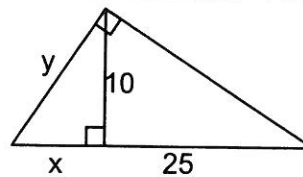
7. $x =$ _____



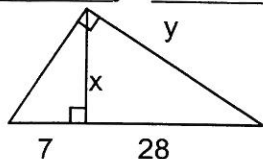
8. $x =$ _____ $y =$ _____



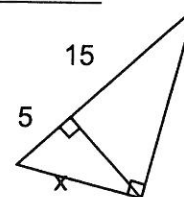
9. $x =$ _____ $y =$ _____



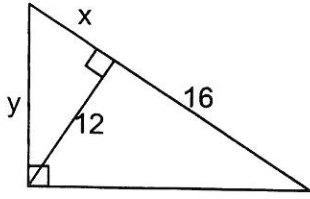
10. $x =$ _____ $y =$ _____



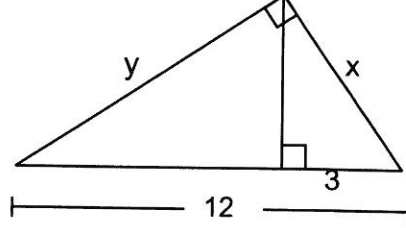
11. $x =$ _____



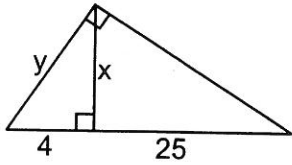
12. $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



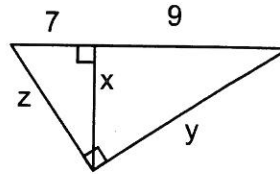
13. $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



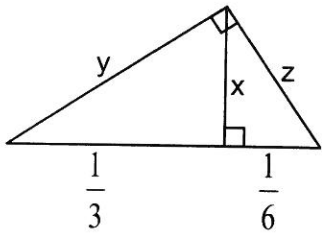
14. $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



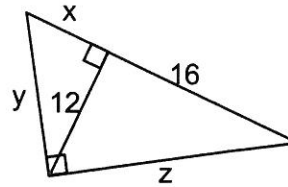
15. $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$



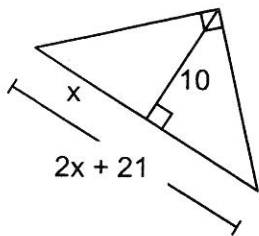
16. $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $z = \underline{\hspace{2cm}}$



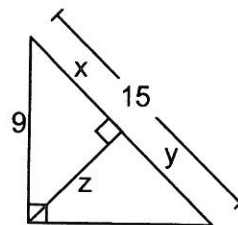
17. $x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $z = \underline{\hspace{2cm}}$



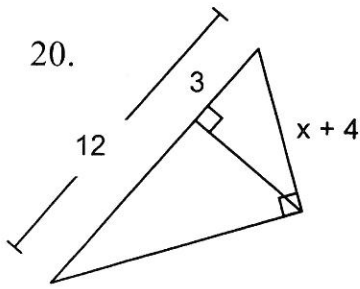
18. $x = \underline{\hspace{2cm}}$



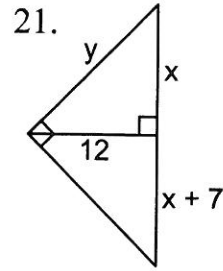
19.



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



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



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

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

Determine if the triangle side lengths can form a triangle. If so, then use Triangle Inequalities to classify the triangles as right, acute or obtuse. Show work.

22. 10, 12, 15

23. 1.5, 2, 2.5

24. 0.7, 1.1, 1.7

25. 8, 13, 23

Find the missing side lengths. Tell if the side lengths form a Pythagorean Triple.

