

Take-Home Quiz
Chapter 7.1-7.2

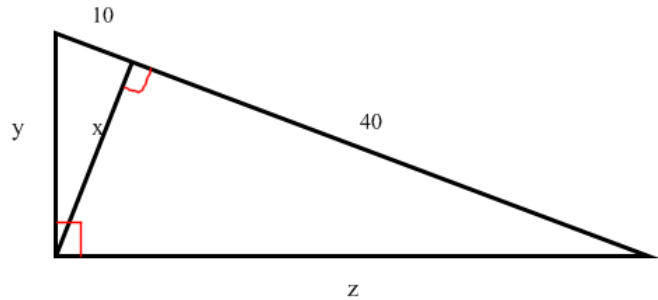
Name _____ Section: _____

Find the geometric mean for each pair of numbers.

1. 5 and 20

2. $\frac{5\sqrt{3}}{2}$ and $\frac{\sqrt{3}}{2}$

Use the following diagram. Find x, y, z without using the Pythagorean Theorem.



3. Altitude $x =$

4. Leg $y =$

5. Leg $z =$

6. Does $\sqrt{3}, \sqrt{8}, \sqrt{11}$ constitute a Pythagorean triple? Why or why not?

Happy Thanksgiving! How about some thanksgiving math?

7. Your local bakery is selling special holiday pies for Thanksgiving dinner. Your family can order the small 10" diameter pumpkin pie for \$3.00 or the larger 20" diameter pumpkin pie for \$9.00. Using your *acute* geometric skills, you detect that one pie is undoubtedly the better deal. Explain using math!