



Mystical Math Episode 2 Problems

1. "From the rock that looks like a pig's behind,
Walk a shape with even sides
Three sides around, a hundred paces each,
In the middle the cave you'll reach."

What shape do the siblings and Goodun Hinter need to walk? Three sides. What shape is it? Think about that shape. Does it always have even sides like the poem says? Can you draw some pictures of that shape?

2. If each side of the triangle was one hundred paces long, how many paces did the royal siblings walk?

3. If they used five different paint colors, how many total paces does each color get in the triangle?

4. How can the royal siblings find the center of the triangle? Draw some ideas about this.

5. Three rules: 1. The cloak has to cover the whole person. 2. The cloak has to be a perfect square, except for the hood. 3. The sides of the square have to be a number of inches divisible by both four and six.

How many inches does each side of the square cloak need to be? A hint: Start by finding the least common multiple of 4 and 6. You know, a number that 4 OR 6 could add up to make.

6. If you count by the above answer, what sum will put you just above 67? Draw a picture of the cloak; label the sides with the measurements.