Tangled Movie Questions

1. The castle is in the shape of a rectangular prism. The length is 25 feet, the width is 157 feet, and the height is 38 feet. What is the surface area of the castle? What is the volume of the castle?

2. There is a flower that grows on the mountain that "keeps her young". The mountain is in the shape of a square pyramid. The base of the mountain measures 120 feet by 30 feet. The height of the mountain is 100 feet. What is the volume of the mountain?

3. Rapunzel's parents lit a cylindrical shaped lantern and let it go into the sky to celebrate her birth. The diameter of the lantern was 8 inches and the height was 14 inches. What is the surface area of the lantern?

4. The princess was high in the tower while her hair was growing! Her hair was about 6 feet long at this point. If Rapunzel needs 6 inches of her hair to be able to donate, how many ponytails could she get with her six feet long hair?

5. Rapunzel says to her chameleon friend Pasqual that she got 22 out of 25. What is this written as a fraction and as a percent?

6. Rapunzel creates a circular shape with her hair. If the shape measures 15 feet in diameter what is the area of the circular shape that she creates with her hair?

7. The area of the castle's roof is 985 square feet. If shingles cost $12.50 per square foot, how much money would it cost to completely cover the roof?

8. The tower Rapunzel lives in is cylindrical shaped. If the volume of her home measures 11,520 cubic feet and the diameter is 16 feet, what is the height of her home? Use 3 for pi.

9. Rapunzel's mother wants to make hazelnut soup. She needs to make enough for both of them. Each will eat 2 cups of soup. How much does she need to make in order to have enough soup for them both to eat 4 times?

10. If we wanted to measure the capacity of the waterfall and how deep it was, what unit of measure would we use?

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11. The woods have 20 trees per square mile. If the woods directly around Rapunzel's house measures 57 square miles, how many trees are surrounding her house?

12. The men at the restaurant are eating and drinking! If they have eaten two fifths of the restaurant's food what percent of food is remaining?

13. The horse opens a secret duck passage. If the passage leads to a secret room shaped like a rectangular prism with a length of 8 yards, width of 7 yards, and a height of 9 yards, what is the volume of the secret room?

14. Eugene wanted to buy a new crown for Rapunzel. If it cost $41 and the sales tax is 6%, what is the total cost of the crown including tax?

15. Rapunzel can never cut her hair or else it will turn brown and lose power. If someone cut 1/20 of her hair when she was a baby, what fraction of her hair did they cut? What percent?

16. The rooftops of the village are shaped as square pyramids. If the height of the roof is 5 feet and the length of the sides are 6 feet. What is the volume of the roof?

17. Eighteen percent of the village people can play an instrument. What fraction can play an instrument? What is this number as a decimal?

18. Eugene is gone and the men want Rapunzel's hair! They ask her, "How much do you think one would pay to stay young forever?" If her hair cost $152,000 per foot and she has 24 feet of hair, what would the total cost of her hair be?

19. Eugene cut 17/20 of Rapunzel's hair off and it all turned brown! What percent of her hair was cut off?

20. The tile on the patio of the castle cost 89 cents per tile. If it takes 250 tiles to cover the patio, what was the total cost to build?