Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_

Test Review volume, surface area, and probability

1. A person is wrapping a gift with the dimensions given below. What would be the surface are of the gift?



2. A company is making the following object below out of steel. What would be the surface area of the object***?*** Use π = 3.

4 in



5 in

3. . The carpenter is making the following wooden peg to fit a table. What would be the volume of this wooden peg? Use π = 3.

3 in



9 in

4. A person is painting the following shape for a town fair. If the person paints the curved portion of the cylinder only, what is the surface area of the object? Use π = 3.



7 m

5. Given the following shape, what is the volume of the object?



6. You have 15 coins: 5 pennies, 6 dimes, and 4 quarters. If you were to pick a coin without replacing it, what would be the probability of getting a penny and then a quarter?

7. One in every 12 students surveyed said they liked math even a little. If you where to survey 96 students, how many students would like math even a little?

8. Jack has a bag with 3 red marbles, 4 blue marbles, and 8 green marbles. Jamie will draw two marbles from the bag without replacing the marbles. What is the probability that Jamie will draw two green marbles?

**#9, 10, 11: A survey was given to 165 people about a favorite birthday item.**



9. What is the probability a person said that balloons were their favorite birthday item?

10. Out of 495 people, how many would you expect to have said cake as their favorite birthday item?

11. What is the probability that a person said cards as their favorite birthday item?

12. Using the spinner below, what is the theoretical probability that the pointer would land on B?



13. You have 5 red coins, 3 yellow coins, 5 green coins, and 2 black coins. You have to draw 2 coins

with replacement. What is the probability of getting a yellow coin and then a green coin?

14. Beth tosses a coin and then rolls a number cube. What is the probability the Beth gets a heads and a number greater than 3?

Answers to the review are listed below. ***If your answer is not here, then you did not do the problem correctly.*** Your answers should be here exactly as shown. Answers are mixed up.

  150 243 8  108  184  210  216 