Name Date

10.52

puzzle

Puzzle Time

What Animal Goes “Baa-Baa-Woof?”

Write the letter of each answer in the box containing the exercise number.

Answers

P. 

E. 

D. 

E. 

G. 

A. 

H. 

S. 

O. 

You roll a number cube once and flip a coin. Find the probability of the compound event.

1. Rolling a factor of 12 and flipping tails

2. Rolling a perfect square and flipping heads

You have a bag that contains 7 red marbles and 5 blue marbles. You randomly choose one of the marbles. Without replacing the first marble, you choose a second marble. Find the probability of the events.

3. Choosing a red marble and then a blue marble

4. Choosing a blue marble and then another blue marble

5. Without replacing the first and second marble, you choose a blue marble, a red marble, and then another red marble.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  | 9 | 3 | 6 | 2 | 4 | 8 | 7 | 5 |
|  |  |  |  |  |  |  |  |  |  |

You are playing a treasure hunt card game that includes 8 treasure chests, 7 pirates, and 9 islands. Each player is dealt 5 cards. Before seeing any of the cards, you randomly make a guess as to which treasure chest is hidden, which pirate buried the treasure, and on   
which island the treasure is buried.

6. What is the probability that you got all three correct before looking at your cards?

7. You look at your cards and are able to eliminate 2 of the treasure chests,   
1 of the pirates, and 2 of the islands. Now you try to guess the correct treasure chest, pirate, and island. What is the probability that you get all three correct?

8. One of your opponents looks at her cards and is able to eliminate 3 treasure chests   
and 2 pirates, but none of the islands. She tries to guess the correct treasure chest,   
pirate, and island. What is the probability that she gets all three correct?

9. Another of your opponents looks at his cards and is able to eliminate 5 treasure   
chests, but no pirates and no islands. He tries to guess the correct treasure chest,   
pirate, and island. What is the probability that he gets all three correct?