



## Puzzle Time

### What Do You Put In A Barrel To Make It Lighter?

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

**Tell whether the events are dependent or independent.**

1. You roll number cube and select a card from a standard deck of cards.

**Event A:** You roll a 3.

**Event B:** You select a face card.

2. A bag of marbles contains 3 red marbles, 2 yellow marbles, and 4 blue marbles. You randomly choose a marble, and without replacing it, you randomly choose another marble.

**Event A:** You choose a red marble first.

**Event B:** You choose a blue marble second.

#### Answers

L.  $\frac{2}{9}$

H. dependent

E.  $\frac{2}{21}$

O.  $\frac{1}{15}$

A. independent

**Find the probability.**

3. A container contains 13 almonds, 8 walnuts, and 19 peanuts. You randomly choose one nut and eat it. Then you randomly choose another nut. Find the probability that you choose a walnut on your first pick and an almond on your second pick.
4. The letters M, A, R, B, L, and E are each written on a card and placed into a hat. You randomly choose a card, return it, and then choose another card. Find the probability that you choose a vowel on your first pick and a consonant on your second pick.
5. A bag contains 3 red chips, 4 blue chips, 5 yellow chips, and 3 green chips. You randomly choose a chip, and without replacing it, you randomly choose another chip. Find the probability that you choose a yellow chip on your first pick and a blue chip on your second pick.

1		2	3	4	5
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