

10B Find the approximate probability of a compound event through experimentation

1. Wally flips a fair coin and rolls a cube numbered 1 through 6. What is the probability that the coin lands on HEADS and the cube lands on 4?

- A $\frac{1}{4}$
- B $\frac{1}{6}$
- C $\frac{1}{10}$
- D $\frac{1}{12}$

2. Shawna has a box of marbles. She removed a marble from the box, recorded the color on the table below, and replaced the marble in the box. Based on the table, what is the probability she will remove a blue marble the next time?

Color	Times Picked
Blue	3
Green	5
Yellow	4

- A $\frac{1}{3}$
- B $\frac{1}{4}$
- C $\frac{3}{10}$
- D $\frac{3}{13}$

3. The table below shows a survey of students' favorite food. Based on this table, what is the probability that a student chosen at random would pick pizza as his or her favorite food?

Food	No. of Students
Hamburger	22
Pizza	13
Chicken	8
Taco	7

- A $\frac{13}{50}$
- B $\frac{13}{37}$
- C $\frac{13}{22}$
- D $\frac{13}{15}$

4. Lisa flips a fair coin and rolls a cube numbered 1 through 6. What is the probability that the coin lands on TAILS and the cube lands on an even number?

- A $\frac{1}{4}$
- B $\frac{1}{6}$
- C $\frac{1}{10}$
- D $\frac{1}{12}$