6.2 Puzzle Time

Who Kept Tom Sawyer Cool In The Summertime?

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

You randomly pick a nut from a can of mixed nuts 20 times and record the results: 5 almonds, 6 peanuts, 2 hazelnuts, 3 pecans, and 4 cashews. Find the experimental probability of the event.

1. choosing an almond

2. choosing a peanut

3. choosing a peanut or cashew

4. choosing not an almond

5. choosing not a peanut

6. choosing a walnut

You pour 50 nuts into a bowl. Use the results from the example above to make the following predictions.

7. How many peanuts would you expect to be in the bowl?

8. How many almonds and pecans would you expect to be in the bowl?

9. How many nuts that are *not* a peanut would you expect to be in the bowl?

Answers	
C. $\frac{3}{4}$	**E.** 0
B. $\frac{1}{3}$	**A.** 2
U. 15	**Y.** 20
E. $\frac{1}{4}$	**R.** $\frac{1}{6}$
K. $\frac{1}{12}$	**H.** 35
L. $\frac{3}{10}$	**F.** $\frac{5}{6}$
R. $\frac{1}{2}$	**N.** $\frac{7}{10}$

You and your friends decide to play hide-and-seek. In a plastic container, there are 2 blue flashlights, 4 green flashlights, 1 red flashlight, 3 white flashlights, and 2 black flashlights. Find the theoretical probability of the event.

10. choosing a green flashlight

11. choosing a black flashlight

12. choosing a red flashlight

13. choosing a flashlight that is not blue

14. The theoretical probability of choosing a green marble is $\frac{1}{3}$. If there are 6 marbles in the bag, how many marbles would you expect to be green?

9	7	4	12	2	6	10	1	11	3	8		13	14	5