

## **Puzzle Time**

## Who Kept Tom Sawyer Cool In The Summertime?

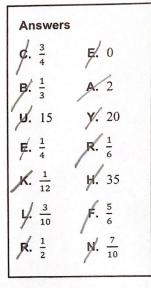
Write the letter of each answer in the box containing the exercise number.

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

- 1. choosing an almond  $\frac{5}{20} = 75\%$  2. choosing a peanut  $\frac{6-3}{20}$
- 3. choosing a peanut or cashew
  5. choosing not a peanut
  6. choosing a walnut
  70
  4. choosing not an almond
  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?



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  $\frac{2}{12} = \frac{1}{6}$
- 12. choosing a red flashlight 3
- 13. choosing a flashlight that is not blue  $10_{10} = 5_{10}$

14. The theoretical probability of choosing a green marble is  $\frac{1}{2}$ . If there are 6 marbles in the bag, how many marbles would you expect to be green?

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