

Practice 12-7 Experimental Probability

The table shows the colors of Rahmi's soccer shirts. For each color, find the experimental probability that a random shirt from Rahmi's collection is that color. Write the probability as a percent, to the nearest tenth of a percent.

Color	Number of shirts
red	6
white	4
orange	3
blue	2

Practice

1. red _____
2. white _____
3. orange _____
4. blue _____
5. red or blue _____
6. not white _____
7. not orange or red _____
8. green _____

Your school's basketball team has an equal chance of winning or losing the first three games of the season. You simulate the probability by tossing a coin 60 times, letting heads stand for a win and tails stand for a loss. Use the data below. Find each experimental probability as a percent.

HHH THH THT TTH THH
 HTH THH THH HTH HHH
 THH TTH THH HTT TTT
 HTT HHT TTH HTH THH

9. $P(\text{win all 3})$ _____
10. $P(\text{win exactly 2})$ _____
11. $P(\text{win exactly 1})$ _____
12. $P(\text{win none})$ _____
13. $P(\text{win at least 2})$ _____
14. $P(\text{win at least 1})$ _____
15. $P(\text{win less than 2})$ _____

Students were surveyed about the number of children living in their household. The table shows the results. Write each experimental probability as a fraction in simplest form.

Number of children	Number of students
0	0
1	11
2	15
3	3
4 or more	4

16. $P(\text{one child})$ _____
17. $P(\text{2 or more children})$ _____
18. $P(\text{at least 3 children})$ _____