

14. In a bag of 400 jelly beans, 25% of the jelly beans are red in color. If you randomly pick a jelly bean from the bag, what is the probability that the jelly bean picked is NOT one of the red jelly beans?

F. $\frac{1}{2}$

G. $\frac{1}{4}$

H. $\frac{3}{4}$

J. $\frac{1}{16}$

K. $\frac{15}{16}$

24. A bag contains 6 red marbles, 5 yellow marbles, and 7 green marbles. How many additional red marbles must be added to the 18 marbles already in the bag so that the probability of randomly drawing a red marble is $\frac{3}{5}$?

- F.** 12
- G.** 16
- H.** 18
- J.** 24
- K.** 36

- 32.** A bag contains 12 red marbles, 5 yellow marbles, and 15 green marbles. How many additional red marbles must be added to the 32 marbles already in the bag so that the probability of randomly drawing a red marble is $\frac{3}{5}$?
- F.** 13
 - G.** 18
 - H.** 28
 - J.** 32
 - K.** 40

2. A bag contains 4 red jellybeans, 5 green jellybeans, and 3 white jellybeans. If a jelly bean is selected at random from the bag, what is the probability that the jellybean selected is green?

F. $\frac{1}{12}$

G. $\frac{1}{5}$

H. $\frac{5}{23}$

J. $\frac{5}{12}$

K. $\frac{5}{7}$

10. One marble is drawn at random from a bag containing 3 red, 2 blue, and 4 green marbles. What is the probability that the marble drawn is NOT blue?

F. $\frac{1}{2}$

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

H. $\frac{7}{9}$

J. $\frac{7}{24}$

K. $\frac{12}{81}$

31. To make a 750-piece jigsaw puzzle more challenging, a puzzle company includes 5 extra pieces in the box along with the 750 pieces, and those 5 extra pieces do not fit anywhere in the puzzle. If you buy such a puzzle box, break the seal on the box, and immediately select 1 piece at random, what is the probability that it will be 1 of the extra pieces?

A. $\frac{1}{5}$

B. $\frac{1}{755}$

C. $\frac{1}{750}$

D. $\frac{5}{755}$

E. $\frac{5}{750}$

39. Larry has 4 blue socks, 6 red socks, and 10 purple socks in his drawer. Without looking, Larry randomly pulled out a red sock from the drawer. If Larry does not put the red sock back in the drawer, what is the probability that the next sock he randomly draws will be red?

a. $\frac{1}{4}$

b. $\frac{3}{10}$

c. $\frac{5}{19}$

d. $\frac{3}{7}$

e. $\frac{1}{6}$

Probability

9. Which of the following is NOT a possible value for a probability?

A. 0.001

B. 0.5

C. $\frac{6}{10}$

D. $\frac{3}{8}$

E. $\frac{34}{31}$

greater than 1
from 0



NEVER

1
ALWAYS

All values of chance are between 0 and 1