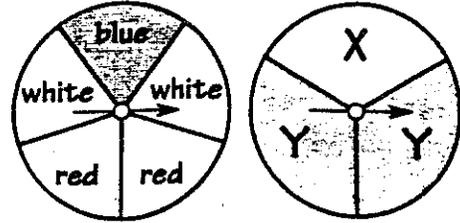


# What Did the Teenage Yardstick Say To Its Parents?

Find each answer in the set of answers under the exercise. Write the exercise letter in that box.

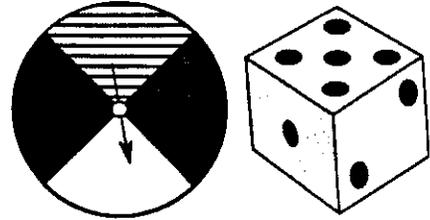
1 Find each probability if you spin both spinners.

- A. P(blue, X)
- T. P(red, X)
- N. P(white, Y)
- O. P(not red, X)
- D. P(not white, Y)
- I. P(not blue, Y)



2 Find each probability if you spin the spinner and roll the die.

- A. P(white, 4)
- S. P(black, 2)
- N. P(striped, even)
- T. P(white, less than 5)
- W. P(not white, odd)
- O. P(green, odd)



3 Solve.

N. Kareem stepped to the free throw line for two shots. If the probability of making each shot is  $\frac{3}{4}$ , what is the probability that he will make both shots?

T. Dr. Sox drives through two stoplights on her way to work. The first light is green for 20 seconds out of each minute. The second light is green for 35 seconds out of each minute. What is the probability that Dr. Sox will hit two green lights?

$\frac{8}{15}$	$\frac{7}{15}$	$\frac{3}{8}$	$\frac{1}{24}$	$\frac{9}{16}$	$\frac{2}{15}$	$\frac{5}{8}$	$\frac{1}{6}$	$\frac{1}{5}$	$\frac{5}{36}$	$\frac{1}{12}$	$\frac{7}{36}$	$\frac{1}{15}$	$\frac{1}{8}$	$\frac{2}{5}$	$\frac{9}{24}$	0	$\frac{4}{15}$
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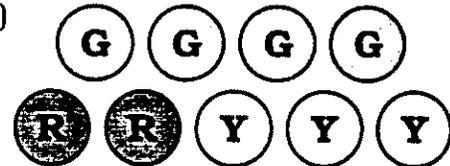
4 "AARDVARK": Find each probability if you pick a card, do not replace it, then pick a second card.

- O. P(V, then K)
- E. P(D, then R)
- N. P(A, then V)
- T. P(A, then R)
- Y. P(R, then not R)
- E. P(A, then not A)



5 Find each probability if you pick two marbles without replacing the first (G = green; R = red; Y = yellow).

- T. P(red, then green)
- E. P(red, then yellow)
- M. P(green, then green)
- F. P(yellow, then not yellow)
- R. P(green, then not green)
- W. P(not red, then not red)



6 Solve.

E. Forty tickets are sold for a raffle with two prizes. You buy two tickets. What is the probability that you will win both prizes?

H. Two cards are drawn at random from a standard deck of 52 cards. What is the probability that both cards are aces?

$\frac{3}{20}$	$\frac{1}{6}$	$\frac{3}{14}$	$\frac{7}{18}$	$\frac{1}{56}$	$\frac{7}{12}$	$\frac{3}{56}$	$\frac{2}{725}$	$\frac{1}{9}$	$\frac{1}{221}$	$\frac{5}{18}$	$\frac{15}{56}$	$\frac{1}{12}$	$\frac{3}{220}$	$\frac{1}{4}$	$\frac{1}{780}$	$\frac{1}{28}$	$\frac{3}{28}$
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**II. Using a standard deck of cards, find the probability of each with replacement.**

1.  $P(2 \text{ and } 5)$

2.  $P(k \text{ and } k)$

3.  $P(7 \text{ and spade})$

4.  $P(\text{ace and } 3)$

**III. Using a standard deck of cards, find the probability of each without replacement.**

5.  $P(6 \text{ and } 7)$

6.  $P(j \text{ and heart})$

7.  $P(9 \text{ and } 9)$

8.  $P(1 \text{ and } 10)$

**IV. Using a standard deck of cards, find the probability.**

9.  $P(2 \text{ or queen})$

10.  $P(\text{club or } 4)$

11.  $P(7 \text{ or spade})$

12.  $P(\text{dia or heart})$