

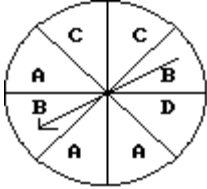
6.3 Practice Problems

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the odds.

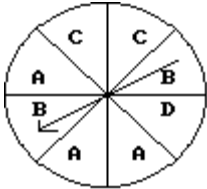
1) _____



What are the odds in favor of spinning an A on this spinner?

- A) 3:5 B) 6:2 C) 4:2 D) 2:6

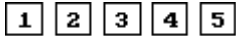
2) _____



What are the odds in favor of spinning a D on this spinner?

- A) 1:7 B) 1:6 C) 6:1 D) 5:1

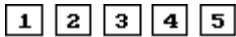
3) _____



What are the odds in favor of drawing a 2 from these cards?

- A) 5:1 B) 1:5 C) 4:1 D) 1:4

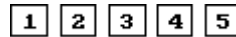
4) _____



What are the odds in favor of drawing an even number from these cards?

- A) 3:2 B) 2:5 C) 2:3 D) 5:2

5) _____



What are the odds in favor of drawing a number greater than 2 from these cards?

- A) 4:5 B) 3:5 C) 3:2 D) 4:1

6) A number cube labeled with numbers 1, 2, 3, 4, 5, and 6 is tossed. What are the odds in favor of the cube showing an odd number? _____

- A) 2:1 B) 1:1 C) 3:2 D) 1:2

7) A number cube labeled with numbers 1, 2, 3, 4, 5, and 6 is tossed. What are the odds in favor of the cube showing a 4? _____

- A) 1:4 B) 1:6 C) 1:5 D) 2:3

- 8) A number cube labeled with numbers 1, 2, 3, 4, 5, and 6 is tossed. What are the odds in favor of the cube showing a number less than 3? 8) _____
 A) 1:2 B) 2:1 C) 1:3 D) 1:1
- 9) The kings are separated from a deck of standard playing cards and shuffled. One king is randomly selected. What are the odds in favor of drawing a black card? 9) _____
 A) 1 to 1 B) 1 to 2 C) 4 to 1 D) 1 to 4
- 10) Seven slips of paper marked with the numbers 1, 2, 3, 4, 5, 6, and 7 are placed in a box and mixed well. Two are drawn. What are the odds in favor of the sum of the numbers on the two selected slips is not 6? 10) _____
 A) 19 to 1 B) 21 to 2 C) 19 to 2 D) 9 to 1

Solve the problem.

- 11) The odds in favor of a horse winning a race are posted as 9 : 4. Find the probability that the horse will win the race. 11) _____
 A) $\frac{4}{9}$ B) $\frac{4}{13}$ C) $\frac{9}{14}$ D) $\frac{9}{13}$
- 12) The odds in favor of a horse winning a race are posted as 8 : 7. Find the probability that the horse will lose the race. 12) _____
 A) $\frac{7}{8}$ B) $\frac{8}{15}$ C) $\frac{7}{15}$ D) $\frac{7}{17}$
- 13) The odds in favor of Carl beating his friend in a round of golf are 7 : 5. Find the probability that Carl will beat his friend. 13) _____
 A) $\frac{7}{13}$ B) $\frac{7}{12}$ C) $\frac{5}{7}$ D) $\frac{5}{12}$
- 14) The odds in favor of Carl beating his friend in a round of golf are 7 : 3. Find the probability that Carl will lose. 14) _____
 A) $\frac{3}{10}$ B) $\frac{7}{10}$ C) $\frac{1}{4}$ D) $\frac{3}{7}$
- 15) The odds against Carl beating his friend in a round of golf are 3 : 2. Find the probability that Carl will beat his friend. 15) _____
 A) $\frac{2}{3}$ B) $\frac{3}{5}$ C) $\frac{1}{3}$ D) $\frac{2}{5}$
- 16) The odds against Carl beating his friend in a round of golf are 7 : 3. Find the probability that Carl will lose. 16) _____
 A) $\frac{3}{10}$ B) $\frac{7}{10}$ C) $\frac{3}{7}$ D) $\frac{7}{11}$
- 17) The odds in favor of Jerome beating his friend in a round of golf are 1 : 5. Find the probability that Jerome will beat his friend. 17) _____
 A) $\frac{1}{7}$ B) $\frac{1}{6}$ C) 1 D)

- 18) The odds in favor of Trudy beating her friend in a round of golf are 1 : 9. Find the probability that Trudy will lose. 18) _____
- A) $\frac{1}{12}$ B) $\frac{9}{11}$ C) $\frac{9}{10}$ D) $\frac{1}{10}$
- 19) The odds against Chip beating his friend in a round of golf are 1 : 7. Find the probability that Chip will beat his friend. 19) _____
- A) $\frac{7}{9}$ B) $\frac{1}{9}$ C) $\frac{7}{8}$ D) $\frac{1}{8}$
- 20) The odds against Muffy beating her friend in a round of golf are 1 : 8. Find the probability that Muffy will lose. 20) _____
- A) $\frac{1}{9}$ B) $\frac{8}{9}$ C) $\frac{2}{9}$ D) $\frac{1}{10}$
- 21) The chart shows winnings for, in dollars, for the 10 highest-rated FASTCAR drivers for last driving season. 21) _____

Driver	Winnings
Rick Bobby	\$6,101,661
Maverick St. Joseph	\$5,198,600
Johnny Wright	\$2,140,478
Jay Smith	\$4,707,656
William Rock	\$2,951,951
Bob Ricky	\$4,020,078
Jimmy Novak	\$4,420,069
Tommy Keefe	\$5,501,450
Tyler Jones	\$3,191,415

If one of the drivers listed in the chart is selected at random, determine the odds against the driver earning more than \$6 million last season.

- A) 9 : 8 B) 1 : 8 C) 8 : 1 D) 8 : 9
- 22) The results of a medical test show that of 66 people selected at random who were given the test, 3 tested positive and 63 tested negative. Determine the odds in favor of a person selected at random testing positive on the test. 22) _____
- A) 21 : 1 B) 22 : 1 C) 1 : 22 D) 1 : 21
- 23) If it has been determined that the probability of an earthquake occurring on a certain day in a certain area is 0.01, what are the odds against an earthquake? 23) _____
- A) 99 to 1 B) 1 to 100 C) 98 to 1 D) 100 to 1
- 24) If it has been determined that the probability of an earthquake occurring on a certain day in a certain area is 0.01, what are the odds in favor of an earthquake? 24) _____
- A) 1 to 100 B) 1 to 99 C) 99 to 1 D) 1 to 98
- 25) If the probability that an identified hurricane will make a direct hit on a certain stretch of beach is 0.02, what are the odds against a direct hit? 25) _____
- A) 49 to 1 B) 1 to 50 C) 50 to 1 D) 48 to 1

- 26) If the probability that an identified hurricane will make a direct hit on a certain stretch of beach is 0.05, what are the odds in favor of a direct hit? 26) _____
A) 1 to 18 B) 19 to 1 C) 1 to 20 D) 1 to 19
- 27) In a certain town, 5% of people commute to work by bicycle. If a person is selected randomly from the town, what are the odds against selecting someone who commutes by bicycle? 27) _____
A) 20 to 1 B) 19 to 1 C) 19 to 20 D) 1 to 19
- 28) In a certain town, 10% of people commute to work by bicycle. If a person is selected randomly from the town, what are the odds in favor of selecting someone who commutes by bicycle? 28) _____
A) 1 to 9 B) 10 to 9 C) 9 to 1 D) 1 to 10