Name _____

9-8 Worksheet

Find the odds in favor of each outcome if a fair six-sided die is rolled.

1. A number greater than 3

2. Not a 4

3. A multiple of 2

4. A number divisible by 3

Answer the question.

5. If the probability of an event occurring is $\frac{2}{3}$, what are the odds in favor of the event occurring?

6. If the probability of an event occurring is $\frac{3}{7}$, what are the odds against the event occurring?

7. If the odds in favor of an event occurring are 7:5, what is the probability of the event occurring?

8. If the odds against an event occurring are 9:14, what is the probability of the event occurring?

A card is selected at random from a deck of 52 cards.

9. What are the odds in favor of selecting a heart?

10. What are the odds against selecting an ace?