



Name _____ Class _____ Date _____

1 **Odds** are used to compare unfavorable possibilities with favorable possibilities.

True or false?

- A true
- B false

2 What are the **odds against** picking a **diamond** out of a deck of **52** cards?

- A 1:3
- B 1:4
- C 3:1
- D 4:1



3 What are the **odds against** picking a **blue** marble out of a jar filled with **8** pink, **6** blue, and **7** green marbles?

- A 21:7
- B 21:6
- C 15:7



4 The odds of the Superstars winning the championship are **15:1**. What are the **odds** of the Superstars **not winning** the championship?

- A 16:1
- B 15:1



PREVIEW

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7 take on a test drive?
A $\frac{1}{3}$ B $\frac{2}{3}$ C $\frac{2}{9}$ D $\frac{5}{9}$

be on?
A $\frac{9}{14}$ B $\frac{5}{14}$ C $\frac{5}{7}$ D $\frac{2}{7}$

9 At a restaurant, there are **7** beef, **5** chicken, and **4** seafood dishes. What is the **probability** that a customer will choose a seafood dish?
A $\frac{1}{3}$ B $\frac{1}{4}$ C $\frac{3}{4}$ D $\frac{5}{16}$

10 At an ice cream shop, there are **6** flavors of soft ice cream, **10** flavors of ice cream **with nuts**, and **16** flavors of ice cream **without nuts**. What is the **probability** of a customer ordering a flavor of ice cream with nuts?
A 31% B 50% C 67% D 72%



ANSWER KEY

Odds are used to compare unfavorable possibilities with favorable possibilities.

True or false?

- A** true
- B** false

(a)

What are the **odds against** picking a **diamond** out of a deck of **52** cards?

- A** 1:3
- B** 1:4
- C** 3:1
- D** 4:1



(c)

What are the **odds against** picking a **blue** marble out of a jar filled with **8** pink, **6** blue, and **7** green marbles?

- A** 21:7
- B** 21:6
- C** 15:7
- D** 15:6



(d)

The odds of the Superstars winning the championship are **15:1**. What are the **odds** of the Superstars **not winning** the championship?

- A** 16:1
- B** 15:1
- C** 1:15

(c)



PREVIEW

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- A** $\frac{1}{3}$
- B** $\frac{2}{3}$
- C** $\frac{2}{9}$
- D** $\frac{5}{9}$

- A** $\frac{9}{14}$
- B** $\frac{5}{14}$
- C** $\frac{5}{7}$
- D** $\frac{2}{7}$

At a restaurant, there are **7** beef, **5** chicken, and **4** seafood dishes. What is the **probability** that a customer will choose a seafood dish?

- A** $\frac{1}{3}$
- B** $\frac{1}{4}$
- C** $\frac{3}{4}$
- D** $\frac{5}{16}$

(b)

At an ice cream shop, there are **6** flavors of soft ice cream, **10** flavors of ice cream **with nuts**, and **16** flavors of ice cream **without nuts**. What is the **probability** of a customer ordering a flavor of ice cream with nuts?

- A** 31%
- B** 50%
- C** 67%
- D** 72%

(a)