

# トランプと確率

\_\_\_\_年 \_\_\_\_組 名前

/6

■ ジョーカーを除く52枚のトランプから無作為に1枚を取り出すとき、次の条件を満たすカードすべてに○をつけて、表を完成させなさい。また、その条件を満たすカードを取り出す確率を求めなさい。

## ① クラブ(♣)のカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     |   |   |   |   |
|      | 3     |   |   |   |   |
|      | 4     |   |   |   |   |
|      | 5     |   |   |   |   |
|      | 6     |   |   |   |   |
|      | 7     |   |   |   |   |
|      | 8     |   |   |   |   |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

条件を満たす確率

## ② 6でわりきれるカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     |   |   |   |   |
|      | 3     |   |   |   |   |
|      | 4     |   |   |   |   |
|      | 5     |   |   |   |   |
|      | 6     |   |   |   |   |
|      | 7     |   |   |   |   |
|      | 8     |   |   |   |   |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

条件を満たす確率

## ③ 絵札ではないカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     |   |   |   |   |
|      | 3     |   |   |   |   |
|      | 4     |   |   |   |   |
|      | 5     |   |   |   |   |
|      | 6     |   |   |   |   |
|      | 7     |   |   |   |   |
|      | 8     |   |   |   |   |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

条件を満たす確率

## ④ 8の約数のカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     |   |   |   |   |
|      | 3     |   |   |   |   |
|      | 4     |   |   |   |   |
|      | 5     |   |   |   |   |
|      | 6     |   |   |   |   |
|      | 7     |   |   |   |   |
|      | 8     |   |   |   |   |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

条件を満たす確率

## ⑤ 偶数のカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     |   |   |   |   |
|      | 3     |   |   |   |   |
|      | 4     |   |   |   |   |
|      | 5     |   |   |   |   |
|      | 6     |   |   |   |   |
|      | 7     |   |   |   |   |
|      | 8     |   |   |   |   |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

条件を満たす確率

## ⑥ 5でわりきれないカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     |   |   |   |   |
|      | 3     |   |   |   |   |
|      | 4     |   |   |   |   |
|      | 5     |   |   |   |   |
|      | 6     |   |   |   |   |
|      | 7     |   |   |   |   |
|      | 8     |   |   |   |   |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

条件を満たす確率

# トランプと確率

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① クラブ(♣)のカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   | ○ |   |   |
|      | 2     |   | ○ |   |   |
|      | 3     |   | ○ |   |   |
|      | 4     |   | ○ |   |   |
|      | 5     |   | ○ |   |   |
|      | 6     |   | ○ |   |   |
|      | 7     |   | ○ |   |   |
|      | 8     |   | ○ |   |   |
|      | 9     |   | ○ |   |   |
|      | 10    |   | ○ |   |   |
| 絵札   | J(11) |   | ○ |   |   |
|      | Q(12) |   | ○ |   |   |
|      | K(13) |   | ○ |   |   |

$$\frac{1}{4}$$

条件を満たす確率

② 6でわりきれぬカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     |   |   |   |   |
|      | 3     |   |   |   |   |
|      | 4     |   |   |   |   |
|      | 5     |   |   |   |   |
|      | 6     | ○ | ○ | ○ | ○ |
|      | 7     |   |   |   |   |
|      | 8     |   |   |   |   |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) | ○ | ○ | ○ | ○ |
|      | K(13) |   |   |   |   |

$$\frac{2}{13}$$

条件を満たす確率

③ 絵札ではないカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  | ○ | ○ | ○ | ○ |
|      | 2     | ○ | ○ | ○ | ○ |
|      | 3     | ○ | ○ | ○ | ○ |
|      | 4     | ○ | ○ | ○ | ○ |
|      | 5     | ○ | ○ | ○ | ○ |
|      | 6     | ○ | ○ | ○ | ○ |
|      | 7     | ○ | ○ | ○ | ○ |
|      | 8     | ○ | ○ | ○ | ○ |
|      | 9     | ○ | ○ | ○ | ○ |
|      | 10    | ○ | ○ | ○ | ○ |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

$$\frac{10}{13}$$

条件を満たす確率

④ 8の約数のカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  | ○ | ○ | ○ | ○ |
|      | 2     | ○ | ○ | ○ | ○ |
|      | 3     |   |   |   |   |
|      | 4     | ○ | ○ | ○ | ○ |
|      | 5     |   |   |   |   |
|      | 6     |   |   |   |   |
|      | 7     |   |   |   |   |
|      | 8     | ○ | ○ | ○ | ○ |
|      | 9     |   |   |   |   |
|      | 10    |   |   |   |   |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) |   |   |   |   |
|      | K(13) |   |   |   |   |

$$\frac{4}{13}$$

条件を満たす確率

⑤ 偶数のカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  |   |   |   |   |
|      | 2     | ○ | ○ | ○ | ○ |
|      | 3     |   |   |   |   |
|      | 4     | ○ | ○ | ○ | ○ |
|      | 5     |   |   |   |   |
|      | 6     | ○ | ○ | ○ | ○ |
|      | 7     |   |   |   |   |
|      | 8     | ○ | ○ | ○ | ○ |
|      | 9     |   |   |   |   |
|      | 10    | ○ | ○ | ○ | ○ |
| 絵札   | J(11) |   |   |   |   |
|      | Q(12) | ○ | ○ | ○ | ○ |
|      | K(13) |   |   |   |   |

$$\frac{6}{13}$$

条件を満たす確率

⑥ 5でわりきれぬカード

|      |       | 黒 |   | 赤 |   |
|------|-------|---|---|---|---|
|      |       | ♠ | ♣ | ♥ | ♦ |
| 数字の札 | A(1)  | ○ | ○ | ○ | ○ |
|      | 2     | ○ | ○ | ○ | ○ |
|      | 3     | ○ | ○ | ○ | ○ |
|      | 4     | ○ | ○ | ○ | ○ |
|      | 5     |   |   |   |   |
|      | 6     | ○ | ○ | ○ | ○ |
|      | 7     | ○ | ○ | ○ | ○ |
|      | 8     | ○ | ○ | ○ | ○ |
|      | 9     | ○ | ○ | ○ | ○ |
|      | 10    |   |   |   |   |
| 絵札   | J(11) | ○ | ○ | ○ | ○ |
|      | Q(12) | ○ | ○ | ○ | ○ |
|      | K(13) | ○ | ○ | ○ | ○ |

$$\frac{11}{13}$$

条件を満たす確率