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# Probability

**Find the probability.**

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| 1. A deck of cards has 3 green, 6 purple, and 6 orange cards. You pick 2 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked.<br>P(the first card is green and the second card is purple) | 2. There are 3 purple, 5 pink, and 5 red marbles in a hat. You pick 2 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn.<br>P(two pink marbles in a row) |
| 3. A deck of cards has 3 red, 6 navy, 5 gray, 5 violet, and 4 pink cards. You pick 2 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked.<br>P(the first card is red and the second card is not red) | 4. A deck of cards has 4 yellow, 5 brown, and 3 black cards. You pick 3 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked.<br>P(the first card is black, the second card is yellow, and the third card is not brown) |
| 5. There are 2 gray, 6 brown, 4 green, and 6 blue marbles in a hat. You pick 2 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn.<br>P(the first marble is blue and the second marble is green) | 6. There are 6 red, 4 orange, 5 yellow, 5 brown, and 6 white marbles in a hat. You pick 2 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn.<br>P(the first marble is brown and the second marble is red) |
| 7. A deck of cards has 6 violet, 4 red, and 5 blue cards. You pick 4 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked.<br>P(the first card is not red, the second card is not violet, the third card is red, and the fourth card is not red) | 8. A deck of cards has 4 brown, 6 blue, and 4 purple cards. You pick 3 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked.<br>P(three purple cards in a row) |
| 9. There are 4 black, 6 red, 6 purple, and 6 gray marbles in a hat. You pick 2 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn.<br>P(the first marble is purple and the second marble is red) | 10. There are 2 brown, 3 navy, and 4 green marbles in a hat. You pick 2 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn.<br>P(two green marbles in a row) |