

Name _____

Date _____
(Answer ID # 0691645)

Probability

Find the probability.

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

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<p>1. A deck of cards has 4 violet, 2 gray, and 3 black cards. You pick 2 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked. P(the first card is violet and the second card is black)</p> <p style="text-align: center;">$\frac{1}{6}$ or 0.167</p>	<p>2. There are 4 violet, 6 white, and 3 gray marbles in a hat. You pick 3 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn. P(three gray marbles in a row)</p> <p style="text-align: center;">$\frac{1}{286}$ or 0.003</p>
<p>3. A deck of cards has 4 white, 6 gray, 2 brown, 3 orange, and 4 blue cards. You pick 2 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked. P(the first card is gray and the second card is blue)</p> <p style="text-align: center;">$\frac{4}{57}$ or 0.07</p>	<p>4. There are 4 yellow, 3 purple, and 4 violet marbles in a hat. You pick 3 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn. P(the first marble is not violet, the second marble is not violet, and the third marble is purple)</p> <p style="text-align: center;">$\frac{49}{330}$ or 0.148</p>
<p>5. A deck of cards has 6 navy, 6 brown, and 3 pink cards. You pick 2 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked. P(two navy cards in a row)</p> <p style="text-align: center;">$\frac{1}{7}$ or 0.143</p>	<p>6. There are 4 yellow, 5 green, 6 blue, and 2 purple marbles in a hat. You pick 2 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn. P(the first marble is yellow and the second marble is green)</p> <p style="text-align: center;">$\frac{5}{68}$ or 0.074</p>

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<p>7. A deck of cards has 5 pink, 4 purple, and 4 blue cards. You pick 4 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked. P(the first card is not blue, the second card is purple, the third card is blue, and the fourth card is pink)</p> <p>$\frac{9}{286}$ or 0.031</p>	<p>8. There are 4 orange, 4 pink, 4 yellow, 5 violet, and 4 navy marbles in a hat. You pick 2 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn. P(the first marble is yellow and the second marble is not yellow)</p> <p>$\frac{17}{105}$ or 0.162</p>
<p>9. A deck of cards has 4 brown, 3 green, 6 pink, and 3 yellow cards. You pick 2 cards from the deck. Cards are <u>not</u> returned to the deck after they are picked. P(the first card is green and the second card is green)</p> <p>$\frac{1}{40}$ or 0.025</p>	<p>10. There are 4 orange, 4 purple, and 6 red marbles in a hat. You pick 4 marbles from the hat. Marbles are <u>not</u> returned after they have been drawn. P(the first marble is purple, the second marble is red, the third marble is not orange, and the fourth marble is purple)</p> <p>$\frac{24}{1001}$ or 0.024</p>