Theoretical probability and counting

Math

Name_____ Class_____ Date_____

1 The spinner shown is spun two times. What is the **probability** of getting a **3** the first time **and** an **odd** the second time?

A $\frac{1}{2}$ C $\frac{1}{10}$

B $\frac{1}{4}$ D $\frac{1}{16}$

2 There are **6** red, **4** blue and **2** green marbles in a bag. If one is picked, **not** replaced and another one is picked, what is the **probability** of picking a **red and then a green** marble?

A $\frac{1}{4}$ C $\frac{1}{12}$

B $\frac{1}{11}$ D $\frac{12}{121}$

3 Maria picks a card from a pack of **52** cards, does **not** return it to the deck, and then picks another card. What is the **probability** of picking a **4 and then an ace**?

A $\frac{4}{...}$ C $\frac{16}{...}$

4 In a drawer, there are **4** brown, **6** black and **8** blue socks. If **two** socks are picked out of the drawer without looking, what is the **probability** that they are **both brown**?

5

7

C 4:1
D 3:1

C 3:2
D 5:1

9 What are the **odds** of **not** picking an **S** out of the word **MISSISSIPPI**?

A 4:11
B 11:4
C 4:7
D 7:4

10 What are the **odds** of **not** picking a **white** marble out of a bag with **4** yellow, **3** white, **2** brown, and **5** blue marbles?

A 11:4
B 4:11
C 11:3
D 3:11

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D

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B

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A

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C

5

B

PREVIEW

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7

C 4:1
D 3:1

A

C 3:2
D 5:1

9 What are the **odds** of **not** picking an **S** out of the word **MISSISSIPPI**?

A 4:11
B 11:4
C 4:7
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C

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A 11:4
B 4:11
C 11:3
D 3:11

D