

## 2018-2019 Grade 7 Unit 6 Mini Touchstone- SP.5

ID: 285560 — SP.5

1. Sara is playing a board game. The probability that Sara will score a point on her next turn is  $\frac{1}{3}$ .

Which statement describes the probability that Sara will score a point on her next turn?

- A. likely
- B. certain
- C. unlikely
- D. impossible

ID: 320604 — SP.5

2. Probability can be expressed as a number between \_\_\_\_\_.

- A. 0 and  $\frac{1}{2}$
- B. 0 and 1
- C. 0 and 10
- D. 0 and 100

ID: 151441 — SP.5

3. Jonathon spins a spinner that has the numbers 1 to 8. Which outcome is impossible?

- A. landing on a 5
- B. landing on an even number
- C. landing on a number that is 8 or less
- D. landing on a number greater than 10

**4. A bag contains 2 blue marbles, 3 green marbles, 1 white marble and 4 red marbles.**

**What is the probability of selecting a red marble? Your answer should be in simplified form.**

A.  $\frac{2}{5}$

B. 30%

C.  $\frac{3}{5}$

D. 0.20

**5. A class was conducting a series of probability experiments.**

**Which set of events would have an equal chance of occurring?**

A. spinning a spinner with 3 sections and tossing a coin.

B. rolling a six-sided cube and drawing 6 marbles out of a bag.

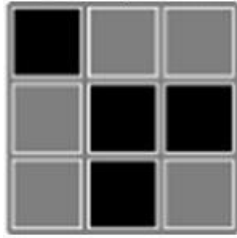
C. tossing a coin and choosing an odd number between 1 and 7.

D. drawing 1 card out of 25 cards and choosing a letter out of the alphabet.

## Additional Questions SP.5 – *Not Required*

ID:285563

Juan buys Mia a box of chocolates for her birthday.



The gray squares represent milk chocolate, and the black squares represent dark chocolate. If Mia selects a chocolate at random, which of the following statements is true?

- A. The probability of choosing dark chocolate is 0.4.
- B. The probability of choosing milk chocolate is 0.5.
- C. There is an equal probability of choosing dark chocolate or milk chocolate.
- D. The probability of choosing dark chocolate is closer to zero than choosing milk chocolate.

ID:321369

Tara did not purchase a lottery ticket. What is the likelihood of Tara winning the jackpot?

- A. impossible
- B. unlikely
- C. Likely
- D. certain

ID:320607

Which event could BEST be described as having a probability close to 0?

- A. it will rain tomorrow
- B. rolling a 7 on a number cube
- C. meeting the president of the U.S.
- D. being promoted to 8<sup>th</sup> grade next year

A class was asked to create a table ordering the probability of events occurring from impossible to certain. Everyone in the class agreed on the table except for Cody. The table is shown. Use it to answer the question.

Probability	Event
Impossible (0)	Meeting President George W. Bush
Unlikely (0.25)	Having two birthdays in one year
Evenly Likely (0.50)	A newborn rabbit will be female
Likely (0.75)	A rock dropped in water will float
Certain (1)	If today is Saturday, tomorrow is Sunday

What is the **BEST** explanation Cody can give to convince the class they are incorrect?

- A. Since Cody has met George W. Bush, the event is certain.
- B. Having two birthdays in one year is impossible, not unlikely.
- C. A pumice rock will float in water, so it should be unlikely instead of likely.
- D. A newborn rabbit will be male or female, so it should be certain instead of evenly likely.