

Statistics and Probability

ACMSP168



Name: _____

Score: _____

Teacher: _____



Assessment



Navigator



Student



30 min

- Q.1. Choose which item best reflects the probability: *the sun will rise tomorrow.*
a) Impossible b) Unlikely c) 50:50 d) Likely e) **Certain**
- Q.2. Choose which item best reflects the probability: *Someone you met at random today will be having a birthday tomorrow.*
a) Impossible b) **Unlikely** c) 50:50 d) Likely e) Certain
- Q.3. Choose which item best reflects the probability: *A fair coin lands with 'Tails' face up.*
a) Impossible b) Unlikely c) **50:50** d) Likely e) Certain
- Q.4. What is the probability a card selected from a deck of 52 playing cards is a heart?
a) $\frac{1}{52}$ b) $\frac{4}{52}$ or $\frac{1}{13}$ c) **$\frac{13}{52}$ or $\frac{1}{4}$** d) $\frac{26}{52}$ or $\frac{1}{2}$ e) $\frac{52}{52}$ or 1
- Q.5. A bag contains 3 red, 4 blue and 5 green marbles. What is the probability a marble selected at random will be blue?
a) 1 b) 4 c) $\frac{3}{12}$ or $\frac{1}{4}$ d) **$\frac{4}{12}$ or $\frac{1}{3}$** e) $\frac{5}{12}$
- Q.6. A bag contains 3 red, 4 blue and 5 green marbles. What is the probability a marble selected at random will **NOT** be green?
a) 3 b) 4 c) 5 d) $\frac{5}{12}$ e) **$\frac{7}{12}$**
- Q.7. A class has 10 boys and 13 girls. A student is selected at random. What is the probability the student is a girl?
a) 1 b) 3 c) $\frac{13}{10}$ d) $\frac{10}{13}$ e) **$\frac{13}{23}$**

Q.8. Two coins are tossed. What is the probability that one lands on heads and the other on tails?

- a) $\frac{1}{4}$ b) $\frac{1}{3}$ c) $\frac{1}{2}$ d) $\frac{2}{3}$ e) 1

Q.9. A number is selected at random from the set of numbers {1, 2, 3, 4, 5, 6, 7, 8, 9}. What is the probability the number is even?

- a) $\frac{1}{2}$ b) $\frac{4}{9}$ c) 4 d) 5 e) $\frac{4}{10}$ or $\frac{2}{5}$

Q.10. A fair coin is tossed four times. The outcomes are T, H, H, H. The probability the next toss will be a head is:

- a) $\frac{1}{16}$ b) $\frac{1}{5}$ c) $\frac{4}{5}$ d) $\frac{1}{4}$ e) $\frac{1}{2}$