Statistics and Probability

ACMSP168

Teachers Teaching with Technology™
Professional Development from Texas Instruments

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) $\frac{13}{23}$

Author: P. Fox

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) $\frac{1}{2}$

Author: P. Fox