Probability · Grade 8

Name _____ Date _____ Score _____ / 6

01 Fraction: A bag holds 9 red and 3 blue marbles. One is taken out and NOT put back. If the first is a red marble, what is the probability the second is also red?

Answer: _____

02 Percent: P(rolling a number greater than 4 on a die AND rolling an even number on a die) =

Answer: _____

03 Decimal: Rolling a fair die, P(a number greater than 2) =

Answer: _____

04 Percent: A letter is chosen at random from the word GEOMETRY. P(the letter O) =

Answer: _____

05 Fraction: A letter is chosen at random from the word MULTIPLICATION. P(the letter T) =

Answer: _____

06 Decimal: A bag holds 8 red and 4 blue marbles. One is taken out and NOT put back. If the first is a red marble, what is the probability the second is also red?

Answer: _____

PROBABILITY · GRADE 8

Probability · Grade 8 (Answer Key)

01 Fraction: A bag holds 9 red and 3 blue marbles. One is taken out and NOT put back. If the first is a red marble, what is the probability the second is also red?

8/11 (≈0.73, ≈72.7%)

02 Percent: P(rolling a number greater than 4 on a die AND rolling an even number on a die) =

≈16.7% (1/6, ≈0.17)

03 Decimal: Rolling a fair die, P(a number greater than 2) =

≈0.67 (2/3, ≈66.7%)

04 Percent: A letter is chosen at random from the word GEOMETRY. P(the letter O) =

12.5% (1/8, 0.13)

05 Fraction: A letter is chosen at random from the word MULTIPLICATION. P(the letter T) =

1/7 (≈0.14, ≈14.3%)

06 Decimal: A bag holds 8 red and 4 blue marbles. One is taken out and NOT put back. If the first is a red marble, what is the probability the second is also red?

≈0.64 (7/11, ≈63.6%)