Fall 2014 Dr. Kracht

Circle one: 9:55 / 12:05

lame: .	Quiz Score:	/20

## Quiz 5: Version A

No credit for answers without sufficient justification. Use standard mathematical notation correctly. NO CALCULATORS ALLOWED.

- 1. (14 pts) Eleven web sites are entered in a web design contest. For each of the following, first give your answer in symbolic form  $({}_{n}P_{r}$  or  ${}_{n}C_{r})$ , then evaluate without using a calculator.
  - (a) In how many ways can one choose the top three sites regardless of order?

(b) In how many ways can one choose the first-, second-, and third-place winners?

2. (6 pts) Consider the sample space  $S = \{o_1, o_2, o_3, o_4\}$ . Suppose  $Pr(o_1) = 0.30$  and  $Pr(o_2) = 0.26$ . If  $o_3$  and  $o_4$  are equally likely, complete the probability assignment for this probability space.

Fall 2014 Dr. Kracht

Circle one: 9:55 / 12:05

lame:	Quiz Score:	/	/20
·uiiic.	Quiz Ocorc.		

## Quiz 5: Version B

No credit for answers without sufficient justification. Use standard mathematical notation correctly. NO CALCULATORS ALLOWED.

- 1. (14 pts) Nine web sites are entered in a web design contest. For each of the following, first give your answer in symbolic form  $({}_{n}P_{r}$  or  ${}_{n}C_{r})$ , then evaluate without using a calculator.
  - (a) In how many ways can one choose the top three sites regardless of order?

(b) In how many ways can one choose the first-, second-, and third-place winners?

2. (6 pts) Consider the sample space  $S = \{o_1, o_2, o_3, o_4\}$ . Suppose  $Pr(o_1) = 0.12$  and  $Pr(o_2) = 0.26$ . If  $o_3$  and  $o_4$  are equally likely, complete the probability assignment for this probability space.

Fall 2014 Dr. Kracht

Circle one: 9:55 / 12:05

\_ Quiz Score: /20 Name: \_\_\_\_\_

## Quiz 5: Version C

No credit for answers without sufficient justification. Use standard mathematical notation correctly. NO CALCULATORS ALLOWED.

- 1. (14 pts) Eight web sites are entered in a web design contest. For each of the following, first give your answer in symbolic form  $({}_{n}P_{r}$  or  ${}_{n}C_{r})$ , then evaluate without using a calculator.
  - (a) In how many ways can one choose the top three sites regardless of order?

(b) In how many ways can one choose the first-, second-, and third-place winners?

2. (6 pts) Consider the sample space  $S = \{o_1, o_2, o_3, o_4\}$ . Suppose  $Pr(o_1) = 0.21$  and  $Pr(o_2) = 0.43$ . If  $o_3$  and  $o_4$  are equally likely, complete the probability assignment for this probability space.

Fall 2014 Dr. Kracht

Circle one: 9:55 / 12:05

lame:	Quiz	Score	: /	20

## Quiz 5: Version D

No credit for answers without sufficient justification. Use standard mathematical notation correctly. NO CALCULATORS ALLOWED.

- 1. (14 pts) Ten web sites are entered in a web design contest. For each of the following, first give your answer in symbolic form  $({}_{n}P_{r}$  or  ${}_{n}C_{r})$ , then evaluate without using a calculator.
  - (a) In how many ways can one choose the top three sites regardless of order?

(b) In how many ways can one choose the first-, second-, and third-place winners?

2. (6 pts) Consider the sample space  $S = \{o_1, o_2, o_3, o_4\}$ . Suppose  $Pr(o_1) = 0.33$  and  $Pr(o_2) = 0.25$ . If  $o_3$  and  $o_4$  are equally likely, complete the probability assignment for this probability space.