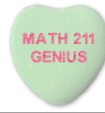


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Name: \_\_\_\_\_

QUIZ 8



MATH 211  
February 14, 2023

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1. This problem concerns lists made from the five symbols C, O, U, N, T.
- (a) How many length-4 lists are there if repetition is allowed?
  
  
  
  
  
  - (b) How many length-4 lists are there if repetition is **not** allowed?
  
  
  
  
  
  - (c) How many length-4 lists are there if repetition is allowed, and the first two entries are vowels?
  
  
  
  
  
  - (d) How many length-4 lists are there if repetition is **not** allowed, and the first two entries are vowels?

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Name: \_\_\_\_\_

QUIZ 8



MATH 211  
February 14, 2023

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1. This problem concerns lists made from the five digits 1, 2, 3, 4, 5.
- (a) How many length-4 lists are there if repetition is **not** allowed?
  
  
  
  
  
  - (b) How many length-4 lists are there if repetition is allowed?
  
  
  
  
  
  - (c) How many length-4 lists are there if repetition is allowed, and the first two entries are odd?
  
  
  
  
  
  - (d) How many length-4 lists are there if repetition is **not** allowed, and the first two entries odd?

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Name: \_\_\_\_\_

QUIZ 8



MATH 211  
February 14, 2023

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1. This problem concerns lists made from the five digits 1, 2, 3, 4, 5.

(a) How many length-4 lists are there if repetition is **not** allowed?

(b) How many length-4 lists are there if repetition is allowed?

(c) How many length-4 lists are there if repetition is allowed, and the first two entries are even?

(d) How many length-4 lists are there if repetition is **not** allowed, and the first two entries even?

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Name: \_\_\_\_\_

QUIZ 8



MATH 211  
February 14, 2023

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1. This problem concerns lists made from the six symbols L, I, S, T, E, D.

(a) How many length-4 lists are there if repetition is allowed?

(b) How many length-4 lists are there if repetition is **not** allowed?

(c) How many length-4 lists are there if repetition is allowed, and the first two entries are vowels?

(d) How many length-4 lists are there if repetition is **not** allowed, and the first two entries are vowels?