6/7/2021 Week4-Quiz

<u>Dashboard</u> / My courses / <u>MA101</u> / <u>Week 4</u> / <u>Week4-Quiz</u>

Ctouted on	Turanday C July 2021 10:00 DM				
	Tuesday, 6 July 2021, 10:09 PM				
	re Finished				
	Tuesday, 6 July 2021, 10:17 PM				
	8 mins 30 secs				
Grade	10.00 out of 10.00 (100 %)				
Correct	Let A, B be sets. Find the set A if A-B= $\{1, 3, 5\}$, B-A= $\{4, 6, 8\}$, $A \cap B = \{0, 2\}$. Select one: a. A= $\{2, 4, 6, 8\}$				
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0220001					
	o. A={0, 2, 4, 6, 8}				
	● d. A={0, 1, 2, 3, 5}				
Correct Mark 1.00 out of 1.00 8220681	Which one of the following transformation steps is FALSE? $A \cap (A \cup B)$ $= (A \cap A) \cup (A \cap B) \text{ (Step 1)}$ $= A \cup (A \cap B) \text{ (Step 2)}$ $= A \cap B \text{ (Step 3)}$ (A, B are 2 arbitrary sets) $Select one:$ $a. Step 1$ $b. Step 3 \checkmark$ $c. Step 2$				
Correct Mark 1.00 out of	How many elements does the Cartesian product of a set A with 10 elements and a set B with 20 elements have? Answer: 200				
Correct Mark 1.00 out of	Let A be a set with 5 elements, B be a set with 8 elements. Assume that A and B have 3 elements in common. How many elements does the set A-B contain? Answer: 2				

6/7/2021 Week4-Quiz

Question **5**

Correct

Mark 1.00 out of 1.00

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In the following membership table, which column is FALSE?

		Column 1	Column 2	Column 3
A	В	Ā	\overline{B}	$A \cap B$
1	1	0	0	1
1	0	0	1	1
0	1	1	0	1
0	0	1	1	0

Select one:

- a. Column 1
- b. Column 2
- c. Column 3 🗸

Question **6** Correct

Mark 1.00 out of 1.00

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How many members of the power set of {a, b, c} are there	e?
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Answer: 8

Question **7** Correct

Mark 1.00 out of 1.00

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In the following membership table, which column is FALSE?

		Column 1	Column 2	Column 3
A	Ø	$\overline{\varnothing}$	$A \cap \emptyset$	Ā
1	0	1	0	0
0	0	1	1	1

Select one:

- a. Column 1
- b. Column 2 🗸
- c. Column 3

Question **8** Correct

Mark 1.00 out of 1.00

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Find a pair of EQUAL sets among the sets given below.

 $A = \{a, b, \{a\}, \{b\}, \{b\}\}\$

 $B=\{a, b, a, \{b\}, b\}$

 $C = \{\{a\}, b, a, b, b\}$

 $D = \{\{a\}, b, a, \{b\}, b\}$

Select one:

- a. A, C
- b. A, D
- O c. B, C

6/7/2021 Week4-Quiz

Question **9** Let A, B be sets. Find the set A if A-B= $\{a, b, c\}$, B-A= $\{d, e, f\}$, $A \cup B = \{a, b, c, d, e, f\}$. Correct (Hint: drawing the Venn diagram may help you) Mark 1.00 out of 1.00 Select one: 8220681 a. A={a, b, c} ✓ b. A={d, e, f} o. A={a, b, c, d, e, f} d. A={a, b, c, d, e} Question **10** Let A, B be two arbitrary sets. Which of the following transformation steps is FALSE? Correct $A \cup (A \cap B)$ $=(A \cup A) \cup (A \cup B)$ (Step 1) Mark 1.00 out of $= A \cup (A \cup B)$ (Step 2) 1.00 $=(A \cup A) \cup B \text{ (Step 3)}$ 8220681 $= A \cup B$ Select one: a. Step 1 ✓ b. Step 2 c. Step 3 ■ Week3-Quiz Jump to... **\$** Week5-Quiz ►

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