

# Exercise for Week 2

⚠ This is a preview of the published version of the quiz

Started: 4 Sep at 16:42

## Quiz instructions

Quiz time is from 09:15am to 10:30am of August 16.

### Question 1

1 pts

Consider the sample space  $S = \{s_1, s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}\}$ . Define events  $A = \{s_1, s_2, s_5, s_8, s_9\}$ ,  $B = \{s_3, s_4, s_5, s_9, s_{10}\}$ ,  $C = \{s_3, s_7, s_8, s_{10}\}$ . Which of the following is INCORRECT?

- ☐  $A \cup B \cup C = S$
- ☐  $A \cap B \cap C = \emptyset$
- ☐  $A \cap B = \{s_5, s_9\}$
- ☐  $B \cup C = \{s_3, s_4, s_5, s_7, s_8, s_9, s_{10}\}$

### Question 2

1 pts

How many odd three digit numbers can be formed from the digits 1,2,3,4, and 5, if each digit can be used at most once?

- ☐ 40
- ☐ 24
- ☐ 36
- ☐ None of the given options

**Question 3****1 pts**

Randomly pick 3 balls from a jar with 8 different balls. How many possible different outcomes are there in total?

- ☐ 24
- ☐ 56
- ☐ 42
- ☐ None of the given options

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