

Quiz #9, Section 3.1

Please use pencil, and write legibly.

Sample space, $S = \{1, 2, 3, 4, 5, 6, 7, 8\}$. Write the event spaces described.

1. $A = \{\text{prime numbers between 1 and 8}\}$ $= \{ \quad \quad \quad \}$	2. $B = \{\text{multiples of 3 between 1 and 8}\}$ $= \{ \quad \quad \quad \}$
3. $A \text{ or } B =$ $= \{ \quad \quad \quad \}$	4. $A \text{ and } B =$ $= \{ \quad \quad \quad \}$

Find the following probabilities. *Write your answers as reduced fractions.*

5. $P(A) =$	6. $P(B) =$	7. $P(\bar{B}) =$
8. $P(A \text{ or } B) =$	9. $P(A \text{ and } B) =$	10. $P(B \text{ or } \bar{B}) =$