

Fill in the Blanks

Basic Set Notation

In all questions $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

| A | B | $A \cap B$ | $A \cup B$ | A' | $n(A)$ | $n(B')$ |
|------------------------|------------------------|------------------|----------------------------------|-------------------------------|--------|---------|
| $\{2, 4, 6, 8, 10\}$ | $\{2, 3, 4, 5\}$ | $\{2, 4\}$ | $\{2, 3, 4, 5, 6, 8, 10\}$ | $\{1, 3, 5, 7, 9\}$ | 5 | 6 |
| $\{1, 2, 3, 4\}$ | $\{3, 5, 7\}$ | $\{3\}$ | $\{1, 2, 3, 4, 5, 7, 9\}$ | $\{5, 6, 7, 8, 9, 10\}$ | 4 | 7 |
| $\{1, 2, 4, 5, 7, 8\}$ | $\{6, 7, 8, 9, 10\}$ | $\{7, 8\}$ | $\{1, 2, 4, 5, 6, 7, 8, 9, 10\}$ | $\{3, 6, 9, 10\}$ | 6 | 5 |
| $\{2, 3, 4, 5, 6\}$ | $\{2, 4, 6\}$ | $\{2, 4, 6\}$ | $\{2, 3, 4, 5, 6\}$ | $\{1, 7, 8, 9, 10\}$ | 5 | 7 |
| $\{6, 7, 8, 9, 10\}$ | $\{1, 2\}$ | $\{\}$ | $\{1, 2, 6, 7, 8, 9, 10\}$ | $\{1, 2, 3, 4, 5\}$ | 5 | 8 |
| $\{4, 7, 10\}$ | $\{6, 7, 8, 9\}$ | $\{7\}$ | $\{4, 6, 7, 8, 9, 10\}$ | $\{1, 2, 3, 5, 6, 8, 9\}$ | 3 | 6 |
| $\{2, 5, 8\}$ | $\{8, 9, 10\}$ | $\{8\}$ | $\{2, 5, 8, 9, 10\}$ | $\{1, 3, 4, 6, 7, 9, 10\}$ | 3 | 7 |
| $\{1, 2, 3, 4, 5\}$ | $\{1, 2, 3, 4, 6, 8\}$ | $\{1, 2, 3, 4\}$ | $\{1, 2, 3, 4, 5, 6, 8\}$ | $\{6, 7, 8, 9, 10\}$ | 5 | 4 |
| $\{5, 7\}$ | $\{5, 6, 7, 8, 9\}$ | $\{5, 7\}$ | $\{5, 6, 7, 8, 9\}$ | $\{1, 2, 3, 4, 6, 8, 9, 10\}$ | 2 | 5 |
| $\{8, 9, 10\}$ | $\{7\}$ | $\{\}$ | $\{7, 8, 9, 10\}$ | $\{1, 2, 3, 4, 5, 6, 7\}$ | 3 | 9 |