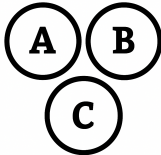


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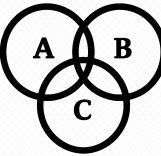
Introduction

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$$A = \{1, 2, 3, 4\}$$

$$B = \{3, 4, 5, 6\}$$

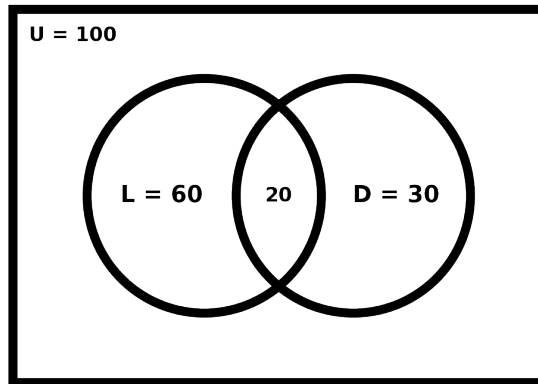


$$A \cap B = \{3, 4\}$$

$$A \cup B = \{1, 2, 3, 4, 5, 6\}$$

$$A \cup B \setminus A \cap B = A \cup B - A \cap B = \{1, 2, 5, 6\}$$

?

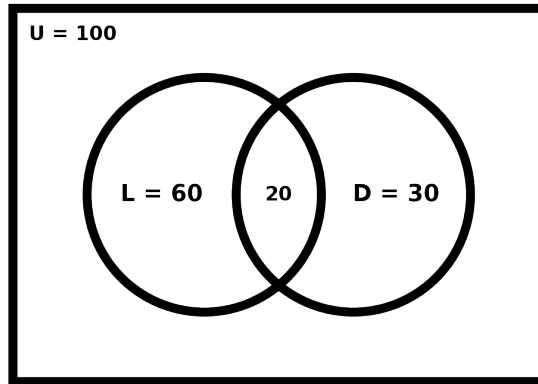


$$|L \cup D \setminus L \cap D| = ?$$

H

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$$\begin{aligned} |L \cup D \setminus L \cap D| &= |L| + |D| - 2|L \cap D| \\ &= 60 + 30 - 2(20) = 50 \end{aligned}$$