



FST 6-2 Warm up

→ 6 OUTCOMES

In 1-5, consider rolling a fair die. Let A be the event {1, 3, 5} and B be the event {2, 3, 4, 6}. Find the probability.

1. $P(A) = \frac{3}{6} = \frac{1}{2}$ 2. $P(A \cup B) = \frac{4}{6} = \frac{2}{3}$ 3. $P(A \cap B) = \frac{1}{6}$

$P(A) + P(B) - P(\text{shared})$

$\frac{3}{6} + \frac{4}{6} - \frac{1}{6} = \frac{6}{6}$

4. $P(\text{not } B) = \frac{2}{6} = \frac{1}{3}$ 5. $P(A \cap \text{not } B) = \frac{2}{6} = \frac{1}{3}$

A only, not B

1, 5, not 3

↳ intersection, what they have in common

{1, 3, 5}
A

{2, 4, 6}
not B

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In 1-5, consider rolling a fair die. Let A be the event {1, 3, 5} and B be the event {2, 3, 4, 6}. Find the probability.

1. $P(A) = \underline{\hspace{2cm}}$ 2. $P(A \cup B) = \underline{\hspace{2cm}}$ 3. $P(A \cap B) = \underline{\hspace{2cm}}$

4. $P(\text{not } B) = \underline{\hspace{2cm}}$ 5. $P(A \cap \text{not } B) = \underline{\hspace{2cm}}$