# Lesson 6.2 Practice: Probability Rules

School Launch · Statistics · Unit 6: Probability · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

**1.** $P(A) = 0.2$, $P(B) = 0.2$, $P(A \cap B) = 0$.
Find $P(A \cup B)$ and $P(\text{neither})$. EASY

**2.** $P(A) = 0.4$, $P(B) = 0.2$, $P(A \cap B) = 0$.
Find $P(A \cup B)$ and $P(\text{neither})$. EASY

**3.** $P(A) = 0.4$, $P(B) = 0.5$, $P(A \cap B) = 0$.
Find $P(A \cup B)$ and $P(\text{neither})$. EASY

**4.** $P(A) = 0.2$, $P(B) = 0.5$, $P(A \cap B) = 0.2$.
Find $P(A \cup B)$ and $P(\text{neither})$. MEDIUM

**5.** $P(A) = 0.7$, $P(B) = 0.3$, $P(A \cap B) = 0.2$.
Find $P(A \cup B)$ and $P(\text{neither})$. MEDIUM

**6.** $P(A) = 0.5$, $P(B) = 0.6$, $P(A \cap B) = 0.5$.
Find $P(A \cup B)$ and $P(\text{neither})$. MEDIUM

**7.** $P(A) = 0.5$, $P(B) = 0.4$, $P(A \cap B) = 0.2$.
Find $P(A \cup B)$ and $P(\text{neither})$. MEDIUM

**8.** $P(A) = 0.3$, $P(B) = 0.6$, $P(A \cap B) = 0.1$.
Find $P(A \cup B)$ and $P(\text{neither})$. HARD

**9.** $P(A) = 0.4$, $P(B) = 0.2$, $P(A \cap B) = 0.1$.
Find $P(A \cup B)$ and $P(\text{neither})$. HARD

**10.** $P(A) = 0.6$, $P(B) = 0.3$, $P(A \cap B) = 0.3$.
Find $P(A \cup B)$ and $P(\text{neither})$. HARD