$\qquad$

Events $A$ and $B$ are disjoint. Find $P(A$ or $B)$.
1.) $P(A)=0.3, P(B)=0.1$
2.) $P(A)=0.41, P(B)=0.24$
3.) $P(A)=\frac{1}{3}, P(B)=\frac{1}{4}$
4.) $P(A)=\frac{2}{3}, P(B)=\frac{1}{5}$

Find the indicated probability.
5.) $P(A)=0.5, P(B)=0.35$
6.) $P(A)=0.6, P(B)=0.2$
$P(A$ and $B)=0.2$
$P(A$ or $B)=$ ?
$P(A$ and $B)=$ ?
$P(A$ or $B)=0.7$
7.) $P(A)=\frac{2}{7}, P(B)=\frac{4}{7}$
$P(A$ and $B)=\frac{1}{7}$
$P(A$ or $B)=$ ?
8.) $P(A)=\frac{6}{11}, P(B)=\frac{3}{11}$
$P(A$ and $B)=?$
$P(A$ or $B)=\frac{7}{11}$

Find $P(\bar{A})$.
9.) $P(A)=0.5$
10.) $P(A)=0$
11.) $P(A)=\frac{5}{8}$

A card is randomly drawn from a standard deck of 52 cards. Find the probability of drawing the given card. Express your probabilities as simplified fractions.
12.) A king and a diamond
13.) A king or a diamond
14.) A spade or a club
16.) A 6 and a face card
17.) Not a heart

Find the indicated probability. State whether $\boldsymbol{A}$ and $B$ are disjoint or overlapping events.
18.) $P(A)=0.25$
$P(B)=0.4$
$P(A$ or $B)=0.5$
$P(A$ and $B)=$ ?
20.) $P(A)=\frac{8}{15}$
$P(B)=$ ?
$P(A$ or $B)=\frac{3}{5}$
$P(A$ and $B)=\frac{2}{15}$
19.) $P(A)=$ ?
$P(B)=0.38$
$P(A$ or $B)=0.65$
$P(A$ and $B)=0$

$$
\text { 21.) } \begin{aligned}
& P(A)=16 \% \\
& P(B)=? \\
& P(A \text { or } B)=32 \% \\
& P(A \text { and } B)=8 \%
\end{aligned}
$$

Two six-sided dice are rolled. Find the probability of the given event.
22.) The sum is 3 or 4 .
23.) The sum is not 7 .
24.) The sum is greater than or equal to 5 .

25.) The sum is less than 8 or greater than 11 .
26.) Of the 120 students honored at an academic banquet, $40 \%$ won awards for mathematics and $55 \%$ won for English. Fourteen of these students won awards for both mathematics and English. One of the 120 students is chosen at random to be interviewed for a newspaper article. What is the probability that the student won an award in mathematics or English?
27.) The organizer of a cast party for a drama club asks each of 6 cast members to bring one item from a list of 10 items. What is the probability that at least 2 of the 6 members bring the same item?

