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Lesson 11.4

## Practice A

For use with the lesson "Find Probabilities of Disjoint and Overlapping Events"

## Events $\boldsymbol{A}$ and $B$ are disjoint. Find $P(A$ or $B)$.

1. $P(A)=0.2, P(B)=0.3$
2. $P(A)=0.22, P(B)=0.7$
3. $P(A)=\frac{2}{7}, P(B)=\frac{5}{9}$
4. $P(A)=34 \%, P(B)=45 \%$
5. $P(A)=\frac{1}{3}, P(B)=\frac{1}{5}$
6. $P(A)=0.73, P(B)=0.08$

## Find the indicated probability.

7. $P(A)=\frac{1}{4}, P(B)=\frac{3}{4}$
8. $P(A)=47 \%, P(B)=21 \%$
9. $P(A)=\frac{1}{2}, P(B)=\frac{2}{5}$
$P(A$ or $B)=0.25$
$P(A$ or $B)=\frac{1}{2}$
$P(A$ and $B)=$ ?
$P(A$ or $B)=\frac{5}{6}$
$P(A$ and $B)=?$

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P(A \text { and } B)=?
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10. $P(A)=\frac{4}{9}, P(B)=\frac{1}{3}$
11. $P(A)=0.22, P(B)=0.55$
12. $P(A)=0.25, P(B)=0.32$
$P(A$ or $B)=0.15$
$P(A$ and $B)=$ ?
$P(A$ or $B)=0.45$
$P(A$ and $B)=$ ?

## Find $P(\bar{A})$.

13. $P(A)=0$
14. $P(A)=0.46$
15. $P(A)=\frac{3}{8}$
16. $P(A)=0.93$

## A card is randomly drawn from a standard deck of 52 cards. Find the probability of drawing the indicated card.

17. Not an ace
18. A face card and a 4
19. A heart or a diamond
20. A 6 or a 7
21. An ace or a spade
22. An ace and a spade
23. Tennis You and your best friend are members of a high school tennis team. The coach is about to pick one player to be the captain of the team. You estimate that there is a $34 \%$ chance you will be picked and a $54 \%$ chance that your best friend will be picked. What is the probability that either you or your best friend will be picked?
24. Meteorology The probability that it will rain today is $65 \%$, and the probability that it will rain tomorrow is $25 \%$. The probability that it will rain both days is $35 \%$. What is the probability that it will rain today or tomorrow?
