## **Experimental and Theoretical Probability** Total points = 23

1. a. P(Heads) 
$$\checkmark$$

$$= \frac{75}{120} \checkmark$$

$$= \frac{75}{120} \checkmark$$

$$= \frac{5}{8} \checkmark$$
b. P(Tails)  $\checkmark$ 

$$= \frac{45}{120} \checkmark$$

$$= \frac{45}{120} \checkmark$$

$$= \frac{3}{8} \checkmark$$
2. a. P(Two heads)  $\checkmark$ 

$$= \frac{117}{300} \checkmark$$

$$= \frac{39}{300} \checkmark$$

$$= \frac{39}{100} \checkmark$$
b. P(A head and a tail)  $\checkmark$ 

$$= \frac{80}{300} \checkmark$$

$$= \frac{4}{15} \checkmark$$
c. P(Two tails)  $\checkmark$ 

$$= \frac{103}{300} \checkmark$$
a. P(A red ace)  $\checkmark$ 

$$= \frac{15}{15} \checkmark$$
c. P(Two tails)  $\checkmark$ 

$$= \frac{103}{300} \checkmark$$

3. a. P(A red ace) 
$$\checkmark$$

$$= \frac{2}{52} \checkmark$$
1

$$= \frac{1}{26} \checkmark$$
b. P(A black number card)  $\checkmark$ 

$$= \frac{18}{52} \checkmark$$

$$= \frac{9}{2} \checkmark$$

$$= \frac{9}{26} \checkmark$$
c. P(A red face card)  $\checkmark$ 

$$= \frac{6}{52} \checkmark$$

$$= \frac{3}{26} \checkmark$$

1. a. 
$$P(\text{Heads}) \checkmark$$

$$= \frac{75}{120} \checkmark$$

$$= \frac{5}{8} \checkmark$$
b.  $P(\text{Tails}) \checkmark$ 

$$= \frac{45}{120} \checkmark$$

$$= \frac{3}{8} \checkmark$$
2. a.  $P(\text{Two heads}) \checkmark$ 

2. a. 
$$P(\text{Two heads}) \checkmark$$

$$= \frac{117}{300} \checkmark$$

$$= \frac{39}{100} \checkmark$$

$$= \frac{39}{100} \checkmark$$
b. P(A head and a tail)  $\checkmark$ 

$$= \frac{80}{300} \checkmark$$

$$= \frac{4}{15} \checkmark$$
c. P(Two tails)  $\checkmark$ 

$$= \frac{103}{300} \checkmark$$
a. P(A red ace)  $\checkmark$ 

**Experimental and Theoretical Probability** 

Total points = 23

c. P(Two tails) 
$$\checkmark$$

$$= \frac{103}{300} \checkmark$$

3. a. 
$$P(A \text{ red ace}) \checkmark$$

$$= \frac{2}{52} \checkmark$$

$$= \frac{1}{26} \checkmark$$

$$= \frac{1}{26} \checkmark$$
b. P(A black number card)  $\checkmark$ 

$$= \frac{18}{52} \checkmark$$

$$= \frac{9}{26} \checkmark$$
c. P(A red face card)  $\checkmark$ 

$$P(\text{A red face card}) \checkmark$$

$$= \frac{6}{52} \checkmark$$

$$= \frac{3}{26} \checkmark$$

## Experimental and Theoretical Probability Total points = 23

1. a. P(Heads) 
$$\checkmark$$

$$= \frac{75}{120} \checkmark$$

$$= \frac{8}{120} \checkmark$$
b. P(Tails)  $\checkmark$ 

b. P(Tails) 
$$\checkmark$$

$$= \frac{45}{120} \checkmark$$

$$= - \checkmark$$

$$= \frac{3}{8} \checkmark$$
2. a. P(Two heads)  $\checkmark$ 

$$= \frac{117}{300} \checkmark$$

$$= \frac{39}{100} \checkmark$$

$$= \frac{39}{100} \checkmark$$
b. P(A head and a tail)  $\checkmark$ 

$$= \frac{80}{300} \checkmark$$

$$= \frac{4}{300} \checkmark$$

c. P(Two tails) 
$$\checkmark$$

$$= \frac{103}{300} \checkmark$$

$$= \frac{4}{15} \checkmark$$
c. P(Two tails)  $\checkmark$ 

$$= \frac{103}{300} \checkmark$$
3. a. P(A red ace)  $\checkmark$ 

$$= \frac{2}{52} \checkmark$$

$$= \frac{1}{26} \checkmark$$
b. P(A black number

b. P(A black number card) 
$$\checkmark$$

$$= \frac{18}{52} \checkmark$$

$$= \frac{9}{2} \checkmark$$

$$= \frac{9}{26} \checkmark$$
c. P(A red face card)  $\checkmark$ 

$$= \frac{6}{52} \checkmark$$

$$= \frac{3}{26} \checkmark$$

## Experimental and Theoretical Probability

Total points = 23

1. a. P(Heads) 
$$\checkmark$$

$$= \frac{75}{120} \checkmark$$

$$= \frac{5}{8} \checkmark$$
b. P(Tails)  $\checkmark$ 

b. 
$$P(Tails) \checkmark$$

$$= \frac{45}{120} \checkmark$$

$$= \frac{3}{8} \checkmark$$

$$=\frac{45}{120} \checkmark$$

$$=\frac{3}{8} \checkmark$$
2. a. P(Two heads)  $\checkmark$ 

$$=\frac{117}{300} \checkmark$$

$$=\frac{39}{100} \checkmark$$
b. P(A head and a t.

$$= \frac{39}{100} \checkmark$$
b. P(A head and a tail)  $\checkmark$ 

$$= \frac{80}{300} \checkmark$$

$$= \frac{4}{300} \checkmark$$

$$= \frac{15}{15} \checkmark$$
c. P(Two tails)  $\checkmark$ 

$$= \frac{103}{300} \checkmark$$

$$= \frac{300}{15} \checkmark$$
c. P(Two tails)  $\checkmark$ 

$$= \frac{103}{300} \checkmark$$
a. P(A red ace)  $\checkmark$ 

$$= \frac{2}{52} \checkmark$$

$$= \frac{1}{26} \checkmark$$
b. P(A black number card)  $\checkmark$ 

$$= \frac{9}{26} \checkmark$$
c. P(A red face card)  $\checkmark$ 

$$= \frac{6}{52} \checkmark$$

$$= \frac{3}{26} \checkmark$$