Probability of an Event Total points = 34

1. a. P(two heads) \checkmark $= \frac{3}{8} \checkmark$

$$= \frac{3}{8} \checkmark$$
b. P(at least two heads) \checkmark 3. a.

b. P(at least two heads)
$$\checkmark$$

$$= \frac{4}{8} \checkmark$$

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

c.
$$P(\text{no tail}) \checkmark$$
$$= \frac{1}{8} \checkmark$$

2. a. P(sum of five)
$$\checkmark$$

$$= \frac{4}{36} \checkmark$$

$$= \frac{1}{36} \checkmark$$

$$= \frac{1}{9} \checkmark$$
b. P(sum is prime) \checkmark

$$= \frac{15}{36} \checkmark$$

$$= \frac{5}{12} \checkmark$$

c. P(sum greater than 9)
$$\checkmark$$

$$= \frac{6}{36} \checkmark$$

$$= \frac{1}{6} \checkmark$$

d. P(not a double)
$$\checkmark$$

$$= \frac{30}{36} \checkmark$$

$$=\frac{5}{6}$$

a. P(a red number card)
$$\checkmark$$

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

$$= \frac{9}{26} \checkmark$$

b. P(not a heart)
$$\checkmark$$

$$= \frac{39}{52} \checkmark$$

$$= \frac{3}{4} \checkmark$$

c. P(a black ace)
$$\checkmark$$

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

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

4. a. P(letter M)
$$\checkmark$$

$$= \frac{2}{11} \checkmark$$

 $=\frac{1}{11} \checkmark$

Probability of an Event Total points = 34

$$= \frac{1}{2} \checkmark$$
c. P(not tail) \checkmark

$$= \frac{1}{8} \checkmark$$
b. P(not a heart) \checkmark

$$= \frac{39}{52} \checkmark$$
a. P(sum of five) \checkmark

$$= \frac{3}{4} \checkmark$$

$$= \frac{39}{52} \checkmark$$

$$= \frac{3}{4} \checkmark$$

a. P(sum of five)
$$\checkmark$$
 $=\frac{3}{4}$ \checkmark $=\frac{4}{36}$ \checkmark c. P(a black ace) \checkmark $=\frac{1}{9}$ \checkmark b. P(sum is prime) \checkmark $=\frac{2}{52}$ \checkmark $=\frac{1}{26}$ \checkmark

b. P(sum is prime)
$$\checkmark$$
 $=\frac{1}{26}$ \checkmark $=\frac{15}{36}$ \checkmark a. P(letter M) \checkmark $=\frac{5}{12}$ \checkmark c. P(sum greater than 9) \checkmark $=\frac{6}{36}$ \checkmark b. P(comes from the first half of the alphabet) \checkmark $=\frac{8}{11}$ \checkmark

d. P(not a double)
$$\checkmark$$

$$= \frac{30}{36} \checkmark$$

$$= \frac{8}{11} \checkmark$$
c. P(letter C) \checkmark

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

Probability of an Event Total points = 34

1. a. P(two heads)
$$\checkmark$$
 = $\frac{3}{8}$ \checkmark 3. a. P(a

=
$$\frac{1}{8}$$
 \checkmark
b. P(at least two heads) \checkmark 3.
= $\frac{4}{8}$ \checkmark
= $\frac{1}{2}$ \checkmark
c. P(no tail) \checkmark

c.
$$P(\text{no tail}) \checkmark$$
$$= \frac{1}{8} \checkmark$$

2. a. P(sum of five)
$$\checkmark$$

$$= \frac{4}{36} \checkmark$$

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

b. P(sum is prime)
$$\checkmark$$

$$= \frac{15}{36} \checkmark$$
5

$$= \frac{5}{12} \checkmark$$
c. P(sum greater than 9) \(\checkmark = \frac{6}{36} \checkmark = \frac{1}{6} \checkmark

$$= \frac{1}{6} \checkmark$$
d. P(not a double) \checkmark

$$= \frac{30}{36} \checkmark$$

36

$$=\frac{5}{6}$$
 \checkmark

a. P(a red number card)
$$\checkmark$$

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

$$= \frac{9}{26} \checkmark$$

b. P(not a heart)
$$\checkmark$$

$$= \frac{39}{52} \checkmark$$

$$= \frac{3}{4} \checkmark$$

$$= \frac{3}{4} \checkmark$$
c. P(a black ace) \checkmark

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

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

4. a. P(letter M)
$$\checkmark$$

$$= \frac{2}{11} \checkmark$$

b. P(comes from the first half of the alphabet)
$$\checkmark$$

$$= \frac{8}{11} \checkmark$$

c. P(letter C)
$$\checkmark$$

$$= \frac{1}{11} \checkmark$$

Probability of an Event

a. P(two heads)
$$\checkmark$$
 $=\frac{5}{6}$ \checkmark $=\frac{3}{8}$ \checkmark a. P(a red number card) \checkmark $=\frac{4}{8}$ \checkmark $=\frac{1}{2}$ \checkmark $=\frac{9}{26}$ \checkmark

c. P(no tail)
$$\checkmark$$

$$= \frac{1}{8} \checkmark$$

$$= \frac{39}{52} \checkmark$$
a. P(sum of five) \checkmark

$$= \frac{4}{36} \checkmark$$

$$= \frac{1}{9} \checkmark$$
b. P(sum is prime) \checkmark

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

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

$$= \frac{15}{36} \checkmark$$

$$= \frac{15}{36} \checkmark$$

$$= \frac{5}{12} \checkmark$$
c. P(sum greater than 9) \(\checkmark \)
$$= \frac{2}{11} \checkmark$$
b. P(comes from

c. P(sum greater than 9)
$$\checkmark$$

$$= \frac{6}{36} \checkmark$$

$$= \frac{1}{6} \checkmark$$
d. P(not a double) \checkmark

d. P(not a double)
$$\checkmark$$

$$= \frac{30}{36} \checkmark$$

$$= \frac{11}{11} \checkmark$$
b. P(comes from the first half of the alphabet) \checkmark

$$= \frac{8}{11} \checkmark$$

c. P(letter C)
$$\checkmark$$

$$= \frac{1}{11} \checkmark$$