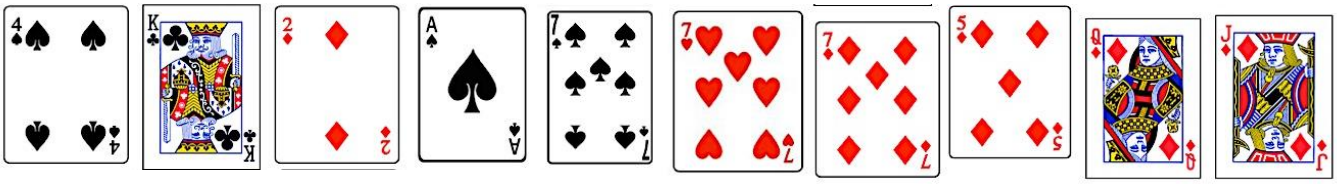
8A.6
Probability: Compound Events

NOTES

Name:_____



Given the set of cards shown above, Find:

P(7 or face card) =

P(diamond or face card) =

P(X or Y) = P(X) + P(Y) − P(X and Y)

Events that are **mutually exclusive** cannot occur at the same time. In these cases, P(X and Y) = 0 and the probability equation above simplifies to P(X or Y) = P(X) + P(Y).

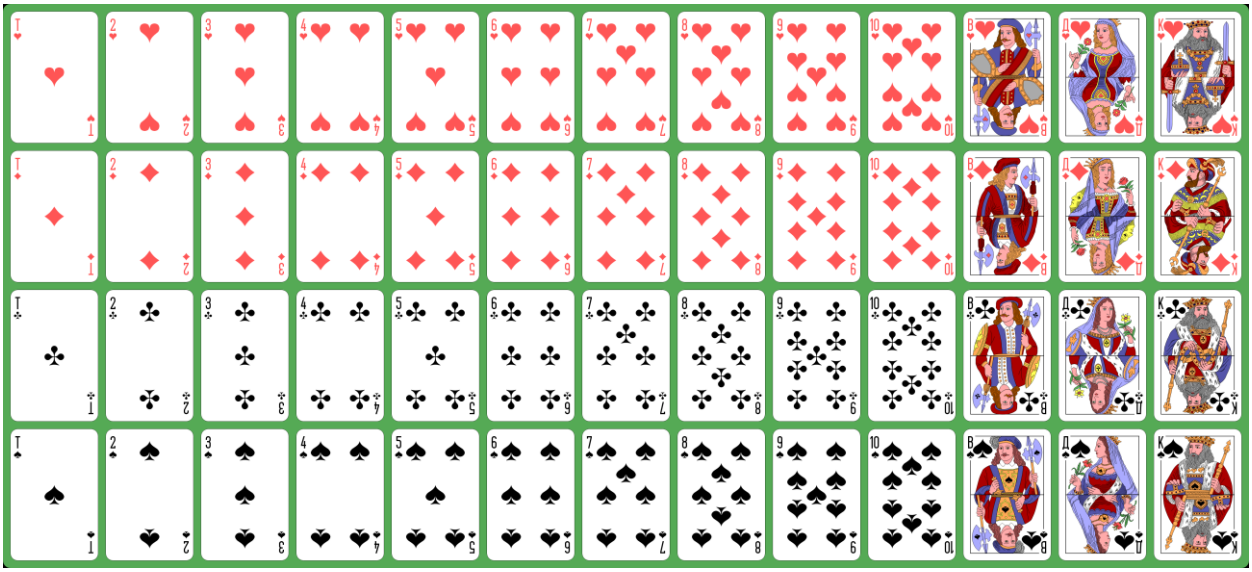
A bowl contains 13 blue, 11 yellow, 14 red, and 12 green marbles.

1) Find P(blue or yellow)

2) Find P(red or green)

3) Find P(yellow or green or blue)

Find each probability below from a standard deck of playing cards.



4) P(ace or red)

5) P(queen or heart)

6) P(face card or spade)

7) P(single digit prime number or red)

8) P(8 or King or black)

9) P(diamond or red)

10) P(black or club)