Probability of Dependent Events

Find the probability of the dependents events

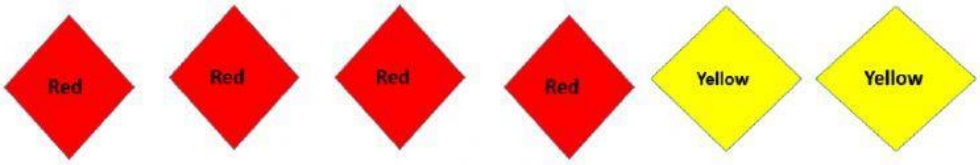
A jar contains 4 blue and 5 white marbles. What is the probability of picking a blue marble without replacing it, select another blue card. What is the probability?

P(blue, then blue) = P(blue) x P(blue)

$$\frac{4}{9} \times \frac{3}{8} = \frac{12}{72} \text{ or } \frac{1}{6}$$

Select one card at random. Without replacing the card, select a second card.

Find the probabilities,



1. P(red, then yellow) = _____

2. P (yellow, then red) = _____

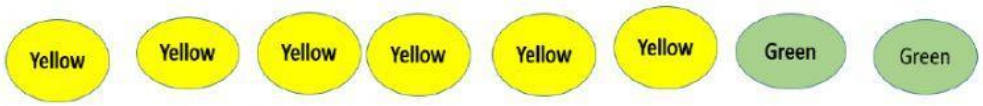
3. P(red, then red) = _____

4. P(yellow, then yellow) = _____

5.(Red, black) = _____

6. P(yellow, white) = _____

A jar contains these balls. Select one ball at random. Without replacing the ball, select a second ball. Find the probabilities.



7. P(yellow, then yellow) = _____

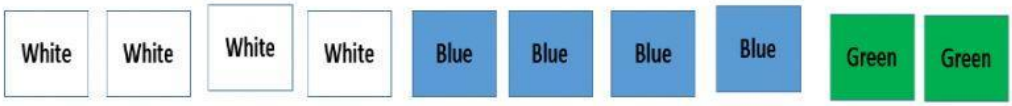
8. P(yellow, then green) = _____

9. P(green, then yellow) = _____

10. P(green, then green) = _____

LIVEWORKSHEETS

Select a card at random. Without replacing the card, select a second card. Find the probabilities,



11. P(white, white) = _____

12. P(blue, green) = _____

13. P(blue, blue) = _____

14. P(white, green) = _____

15. P(green, purple) = _____

16. P(green, red) = _____

LIVEWORKSHEETS