Name: _____          Date _____

Topic :   Problems Involving AND & OR- Worksheet 1

Complete the following problems.

**1.**     In a game, a die is rolled with the numbers 14 through 24. What is the probability that the value of roll will be multiples of three or nine?

**2.**     Mark has 7 R-1 bikes, 4 FZR bikes, and 2 CBR bikes in his garage. What is the probability of selecting a CBR bike from his garage?

**3.**     Express the probability in which E or R is selected from the word "EXTREME".

**4.**     What is the probability to pick a king or a 7 card in a row out of a 52-card deck?

**5.**     A number cube has 6 sides. The sides are numbered 3 to 8. If the cube is thrown once, what is the probability of rolling a multiple of 2?

**6.**     What is the probability of getting a heart or a black card?

**7.**     A mall has 21 shops:  9 are garments, 5 are candies, and 7 are accessories shops. What is the probability that we will go shopping in accessories or candy shop?

**8.**     Find the probability of randomly choosing the letter H or T from a board that contains the letters in the word HOSTEL.

**9.**     Out of 140 books in a library, 20 had historic content, 70 are based on Accounting, and 50 are based on Mathematics. Find the probability of choosing a book with Historic or Accounting content.

**10.**    A glass shelf contains 7 cups, 5 glasses, and 2 plates. What is the probability against selecting a cup or plate from the shelf?

Name: _____         Date _____

Topic : <u>Problems Involving AND & OR- Worksheet 2</u>

Complete the following problems.

**1.**     In a game, a die is rolled with the numbers 10 through 20. What is the probability that the value of roll will be multiples of two or four?


**2.**     Steve has 9 Cross, 7 Parker, and 5 Mont Blanc pens in his Bag. What is the probability of selecting a Parker pen from his bag?


**3.**     Express the probability in which C or O is selected from the word "SCHOOL".



**4.**     What is the probability to pick a Jack or a 10 card in a row out of a 52-card deck?


**5.**     A number cube has 6 sides. The sides are numbered 4 to 10. If the cube is thrown once, what is the probability of rolling 5 or a multiple of 4?


**6.**     What is the probability of getting a club or a red card?



**7.**     A Mall has 14 shops:  2 are garment shops, 7 are cake shops, and 5 are glass shops. What is the probability that we will go shopping in cake or garment shop?

**8.**     Find the probability of randomly choosing the letter O or T from a board that contains the letters in the word Bottle.

**9.**     Out of 140 books in a library, 40 had Advertising content, 30 are based on Animals, and 70 are based on Airplanes. Find the probability of choosing a book with Animals or Airplanes content.


**10.**     A Pencil Box contains 2 pens, 3 pencils, and 1 eraser. What is the probability against selecting a pencil or eraser from the pencil box?

Name: _____          Date _____

Topic :   Problems Involving AND & OR- Worksheet 3

Complete the following problems.

**1.**     In a game, a die is rolled with the numbers 7 through 15. What is the probability that the value of roll will be multiples of two or five?

**2.**     Rupert has 4 BMW, 9 Honda, and 7 Hyundai cars in his garage. What is the probability of selecting a BMW from his garage?

**3.**     Express the probability in which C or T is selected from the word "computer".

**4.**     What is the probability to pick a queen or a 9 card in a row out of a 52-card deck?

**5.**     A number cube has 6 sides. The sides are numbered 5 to 10. If the cube is thrown once, what is the probability of rolling 5 or a multiple of 3?

**6.**     What is the probability of getting a Spade or Heart card?

**7.**     A Mall has 20 shops:  8 are garments, 4 are candies, and 8 are accessories shops. What is the probability that we will go shopping in accessories or candy shop?

**8.**     Find the probability of randomly choosing the letter S or L from a board that contains the letters in the word Glass.

**9.**     Out of 180 books in a library, 60 had history content, 75 are based on Science, and 45 are based on Geography. Find the probability of choosing a book with Geography or Science content.

**10.**    A school bag contains 8 books, 7 pens, and 4 erasers. What is the probability against selecting a book or eraser from the school bag?

Name: _____        Date _____

Topic : <u>Problems Involving AND & OR- Worksheet 4</u>

Complete the following problems.

**1.**    In a game, a die is rolled with the numbers 4 through 22. What is the probability that the value of roll will be multiples of seven or five?

**2.**    Rocky has 8 Rado , 5 Omega, and 9 Espirit watches in his desk . What is the probability of selecting an Omega watch from his desk?

**3.**    Express the probability in which L or E is selected from the word "college".

**4.**    What is the probability to pick a Queen or a 5 card in a row out of a 52-card deck?

**5.**    A number cube has 6 sides. The sides are numbered 7 to 12. If the cube is thrown once, what is the probability of rolling 10 or a multiple of 9?

**6.**    What is the probability of getting a spade or a club card?

**7.**    A Mall has 21 shops:  9 are pens, 7 are shoes, and 5 are watch shops. What is the probability that we will go shopping in pens or shoes shop?

**8.**    Find the probability of randomly choosing the letter B or C from a board that contains the letters in the word Bracelet.

**9.**    Out of 100 books in a library, 40 had Electronic content, 10 are based on Antiques, and 50 are based on Fishes. Find the probability of choosing a book with Electronic or Fish content.

**10.**   A Box contains 8 books, 7 pens, and 5 erasers. What is the probability against selecting a books or an eraser from the box?

Name: _____     Date _____

Topic:  Problems Involving AND & OR- Worksheet 5

Complete the following problems.

**1.**     In a game, a die is rolled with the numbers 8 through 35. What is the
         probability that the value of roll will be multiples of ten or eleven?

**2.**     Jack has 7 Levis, 6 Lee, and 2 Pepe Jeans in his cupboard. What is the
         probability of selecting a Pepe from his Cupboard?

**3.**     Express the probability in which P or R is selected from the word Paper.

**4.**     What is the probability to pick a King or a 6 card in a row out of a 52-card
         deck?

**5.**     A number cube has 6 sides. The sides are numbered 4 to 9. If the cube is
         thrown once, what is the probability of rolling a multiple of 3?

**6.**     What is the probability of getting a club or a red card?

**7.**     A Mall has 19 shops:  9 are cosmetics, 4 are vegetable stands, and 6 are
         garments shops. What is the probability that we will go shopping in cosmetics
         shop or vegetables stand?

**8.**     Find the probability of randomly choosing the letter L or P from a board that
         contains the letters in the word "LAPTOP".

**9.**     Out of 70 books in a library, 10 had political content, 40 are based on
         movies, and 20 are based on meditation. Find the probability of choosing a
         book on politics or meditation content.

**10.**    A bag contains 7 shoes, 10 socks, and 4 nail polish bottles. What is the
         probability against selecting a shoe or sock from the bag?