

Name \_\_\_\_\_

Date \_\_\_\_\_

**Topic: Probability Problems Involving AND & OR- Worksheet 1**

**1. In a game a die numbered 9 through 14 is rolled. What is the probability that the value of a roll will be a multiple of two or ten?**

**2. Mark has 3 balls, 4 toy cars, and 5 toy guns in his bag. What is the probability of selecting a toy car from his bag?**

**3. Express the probability in which P or I is selected from the word PLAYING.**

**4. What is the probability to pick a QUEEN or a NINE card out of a 52-card deck?**

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

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

**7. A shop has 15 balls: 4 are green, 6 are red, and 5 are yellow balls. What is the probability that we will take red ball or the green ball?**

**8. Find the probability of randomly choosing the letter A or E from a board that contains the letters in the word CANDLE.**

**9. Out of 120 bags in a shop, 60 are side bags, 40 are shoulder bag, and 20 are school bags. Find the probability of choosing a side bag or school bag.**

**10. A book shelf contains 6 history books, 9 mathematics books, and 4 accounting books. What is the probability of selecting a history book or accounting from the shelf?**



**Topic: Probability Problems Involving AND & OR- Worksheet 2****Do the following:**

- 1. In a game a die numbered 8 through 13 is rolled. What is the probability that the value of a roll will be a multiple of four or eight?**
- 2. John has 5 candies, 3 Cadbury, and 7 gems in his pocket. What is the probability of selecting a Cadbury from his pocket?**
- 3. Express the probability in which I or K is selected from the word *DRINKING*.**
- 4. What is the probability to pick a *JACK* or a *SIX* card out of a 52-card deck?**
- 5. TRICKY: A numbered quadrilateral has 4 sides. The sides are numbered 4 to 7. If the rectangle 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 shop has 20 roses: 6 are red, 4 are pink, and 10 are white balls. What is the probability that we will select white rose or pink rose?**
- 8. Find the probability of randomly choosing the letter O or T from a board that contains the letters in the word *COMPUTER*.**
- 9. Out of 150 books in a library, 40 are chemistry, 60 are physics, and 50 are mathematics. Find the probability of choosing a chemistry book or mathematic book.**
- 10. A lunch box contains 2 burgers, 2 pizza, and 3 sandwiches. What is the probability of selecting a burger or pizza from the lunch box?**



**Topic: Probability Problems Involving AND & OR- Worksheet 3****Do the following:**

- 1. In a game a die numbered 6 through 11 is rolled. What is the probability that the value of a roll will be a multiple of three or two?**
- 2. Kenny has 7 shirts, 6 t-shirts, and 4 ties on his shelf. What is the probability of selecting a tie from his shelf?**
- 3. Express the probability in which A or O is selected from the word *FOOTBALL*.**
- 4. What is the probability to pick a *HEART* or a *FIVE* card out of a 52-card deck?**
- 5. TRICKY: A numbered pentagon has 5 sides. The sides are numbered 5 to 9. If the rectangle is thrown once, what is the probability of rolling a multiple of 3?**
- 6. What is the probability of getting a king or a spade card?**
- 7. A girl chooses at random from 24 clothing items: 12 are skirts, 4 are t-shirts, and 8 are tops. What is the probability that she will select a t-shirt or a skirt?**
- 8. Find the probability of randomly choosing the letter C or E from a board that contains the letters in the word *PEACOCK*.**
- 9. Out of 90 cups in a shelf, 30 are small, 40 are medium, and 20 are large. Find the probability of choosing a small cup or large cup.**
- 10. A bucket contains 4 apples, 3 orange and 7 bananas. What is the probability of selecting an orange or banana from the bucket?**



**Topic: Probability Problems Involving AND & OR- Worksheet 4****Do the following:**

- 1. In a game a die numbered 5 through 10 is rolled. What is the probability that the value of a roll will be a multiple of five or three?**
- 2. Shelly has 6 jeans, 5 top and 3 skirts on her shelf. What is the probability of selecting a top from her shelf?**
- 3. Express the probability in which N or T is selected from the word *STATION*.**
- 4. What is the probability to pick a *SPADE* or a *RED* card out of a 52-card deck?**
- 5. A numbered hexagon has 6 sides. The sides are numbered 4 to 9. If the rectangle is thrown once, what is the probability of rolling 5?**
- 6. What is the probability of getting a queen or a black card?**
- 7. A boy chooses at random 18 clothing items: 7 are shirts, 6 are trousers, and 5 are t-shirts. What is the probability that he will select a t-shirt or pair of trousers?**
- 8. Find the probability of randomly choosing the letter T or L from a board that contains the letters in the word *HOTEL*.**
- 9. Out of 125 stones in a pot, 25 are red, 60 are blue, and 40 are black. Find the probability of choosing a red stone or black stone.**
- 10. A jar contains 5 pens, 6 pencils and 8 sketch colors. What is the probability of selecting an pen or pencil from the jar?**



**Topic : Probability Problems Involving AND & OR- Worksheet 5**

**Do the following:**

- 1. In a game a die numbered 4 through 9 is rolled. What is the probability that the value of a roll will be a multiple of six or two?**
- 2. Jack has 5 burgers, 4 pastries, and 2 pizzas in a box. What is the probability of selecting a pastry from his box?**
- 3. Express the probability in which H or G is selected from the word *NOTHING*.**
- 4. What is the probability to pick a *DIAMOND* or a *SEVEN* card out of a 52-card deck?**
- 5. A numbered heptagon has 7 sides. The sides are numbered 6 to 12. If the rectangle is thrown once, what is the probability of rolling a multiple of 6?**
- 6. What is the probability of getting a red or a heart card?**
- 7. A child is chosen at random from a shop 16 toys: 5 are guns, 4 are cars, and 7 are balls. What is the probability that he will select car or gun?**
- 8. Find the probability of randomly choosing the letter A or S from a board that contains the letters in the word *SATURDAY*.**
- 9. Out of 130 pens in a jar, 40 are blue, 30 are black, and 60 are red. Find the probability of choosing a blue pen or red pen.**
- 10. A plate contains 8 dairy milk chocolates, 7 Kitkats and 5 temptations. What is the probability of selecting a temptation or dairy milk chocolate from the jar?**

