Topic : <u>Empirical Probability- Worksheet 1</u>

Do the following:

1. What is the probability that you will get exactly one head will come when two coins are tossed?

2. Each of the letters in the word INSERT is on a separate card, face down on the table. If you pick a card at random, what is the probability that its letter will be R?

3. You pick one card from a standard deck. What is the probability that the card will be a queen card?

4. A bowl contains 5 black stones, 3 blue stones, and 2 purple stones. You pick one without looking. What is the probability that the stone will be blue?

5. You ask a friend to think of a number from 5 to 30. What is the probability that his number will be a multiple of 10?

6. Each of the letters in the word MAILINGS are on separate cards, face down on the table. If you pick a card at random, what is the probability that its letter will be I or N?

7. A boy is playing with a dice and he rolled the die. What is the probability that the value that appears on the die is an even number?

8. A bucket contains 15 white squares, 20 green squares, and 5 blue squares and you pick one without looking. What is the probability that the square will be blue?

9. A ball is chosen from a bag that contains 20 balls numbered from 1 to 20. What is the probability that the ball chosen will be divisible by 6?

10. What is the probability of the appearance of the digit two when a six-sided die is thrown?

Name _____   Date _____

Topic : <u>Empirical Probability- Worksheet 2</u>

Do the following:

1. What is the probability that you will get exactly one tail will come when one coin is tossed?

2. Each of the letters in the word REVIEW is on a separate card, face down on the table. If you pick a card at random, what is the probability that its letter will be E?

3. You pick one card from a standard deck. What is the probability that the card will be an ace card?

4. A jar contains 10 white marbles, 8 orange marbles, and 5 red marbles. You pick one without looking. What is the probability that the marble will be white?

5. You ask a friend to think of a number from 20 to 40. What is the probability that his number will be a multiple of 5?

6. Each of the letters in the word REFERENCES are on separate cards, face down on the table. If you pick a card at random, what is the probability that its letter will be E or R?

7. A boy is playing with a die and he rolled the die. What is the probability that the value that appears on the die is an odd number?

8. A bucket contains 12 brown circles, 14 black circles, and 10 pink circles and you pick one without looking. What is the probability that the circle will be brown?

9. A bottle is chosen from a bag that contains 25 bottles numbered from 1 to 25. What is the probability that the ball chosen will be divisible by 6?

10. What is the probability of the appearance of the digit four when a six-sided die is thrown?

Name _____   Date _____

Topic : <u>Empirical Probability- Worksheet 3</u>

Do the following:

1.   What is the probability that you will get exactly one tail will come when three coins are tossed?

2.   Each of the letters in the word DESIGN is on a separate card, face down on the table. If you pick a card at random, what is the probability that its letter will be G?

3.   You pick one card from a standard deck. What is the probability that the card will be a black card?

4.   A box contains 9 pink balls, 7 red balls, and 8 yellow balls. You pick one without looking. What is the probability that the ball will be pink?

5.   You ask a friend to think of a number from 4 to 25. What is the probability that his number will be a multiple of 6?

6.   Each of the letters in the word LAYOUTS are on separate cards, face down on the table. If you pick a card at random, what is the probability that its letter will be T or L?

7.   A boy is playing with a die and he rolled the die. What is the probability that the value that appears on the die is an odd number?

8.   A box contains 15 black triangles, 10 gray triangles, and 8 blue triangles and you pick one without looking. What is the probability that the triangle will be black?

9.   A pen is chosen from a bag that contains 30 pens numbered from 1 to 30. What is the probability that the ball chosen will be divisible by 8?

10.   What is the probability of the appearance of the digit six when a six-sided die is thrown?

Name _____   Date _____

Topic : <u>Empirical Probability- Worksheet 4</u>

Do the following:

1. What is the probability that you will get exactly one head will come when two coin are tossed?

2. Each of the letters in the word SAMSUNG is on a separate card, face down on the Desk. If you pick a card at random, what is the probability that its letter will be N?

3. You pick a card from a standard deck. What is the probability that the card will be a king card?

4. A box contains 15 blue nails, 9 grey nails, and 6 green nails. You pick one without looking. What is the probability that the nail will be green?

5. You ask your brother to think of a number from 14 to 32. What is the probability that his number will be a multiple of 3?

6. Each of the letters in the word CONFIDENCE are on separate cards, face down on the table. If you pick a card at random, what is the probability that its letter will be O or F?

7. A girl is playing with a die and she rolled the die. What is the probability that the value that appears on the die is an even number?

8. A jar contains 8 red pens, 11 blue pens, and 5 grey pens and you pick one without looking. What is the probability that the pen will be blue?

9. A glass is chosen from a jar that contains 15 glasses numbered from 1 to 15. What is the probability that the glass chosen will be divisible by 4?

10. What is the probability of the appearance of the digit two when a six-sided die is thrown?

Name _____   Date _____

Topic : <u>Empirical Probability- Worksheet 5</u>

Do the following:

1. What is the probability that you will get exactly one tail will come when four coin are tossed?

2. Each of the letters in the word SOLUTIONS is on a separate card, face down on the Table. If you pick a card at random, what is the probability that its letter will be U?

3. You pick a card from a standard deck. What is the probability that the card will be a red Jack card?

4. A bag contains 17 green pins, 5 red pins, and 2 yellow pins. You pick one without looking. What is the probability that the pin will be yellow?

5. You ask your sister to think of a number from 9 to 39. What is the probability that his number will be a multiple of 13?

6. Each of the letters in the word REFERENCE are on separate cards, face down on the table. If you pick a card at random, what is the probability that its letter will be C or R?

7. A child is playing with a die and he rolled two die. What is the probability that the value that appears on the die is an odd number?

8. A box contains 6 blue wires, 16 grey wires, and 3 red wires and you pick one without looking. What is the probability that the wire will be grey?

9. A ball is chosen from a box that contains 25 balls numbered from 1 to 25. What is the probability that the glass chosen will be divisible by 3?

10. What is the probability of the appearance of the digit five when a six-sided die is thrown?