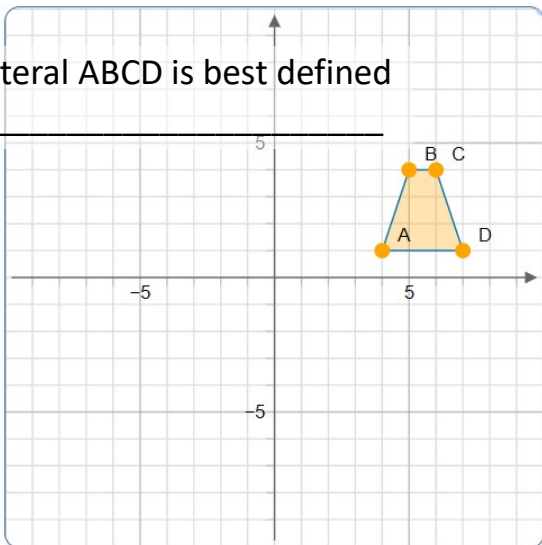


Warmup

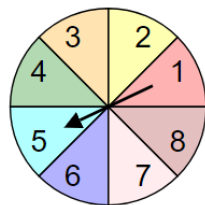
1. Plot the translation of the quadrilateral 8 to the left and 6 to the down.

Quadrilateral ABCD is best defined as a _____

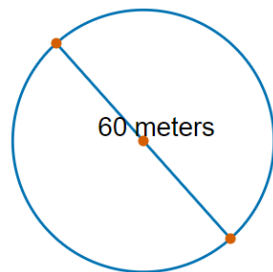


2. Determine the probability of landing on a **number less than nine** on the next spin.

$P(\text{number less than 9}) = \underline{\hspace{2cm}}$

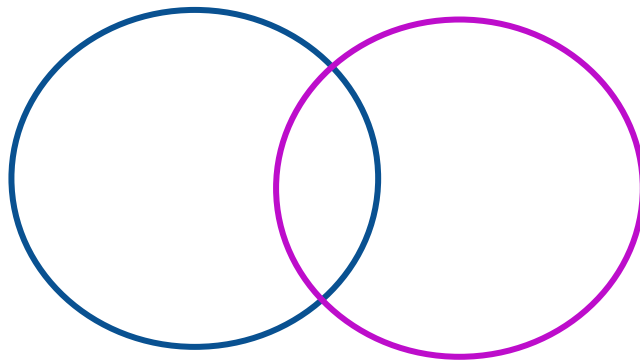


3. Find the circumference of the circle. (use 3.14 for π)



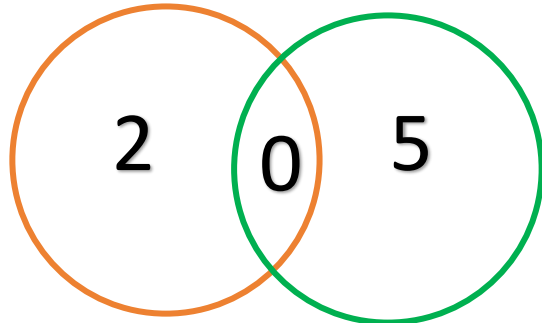
I. Venn Diagram with Two Circles

Venn Diagram: A method of using overlapping circles to organize data.



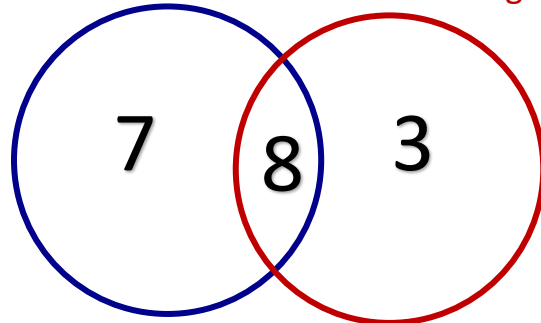
Wear Glasses

Do not Wear Glasses

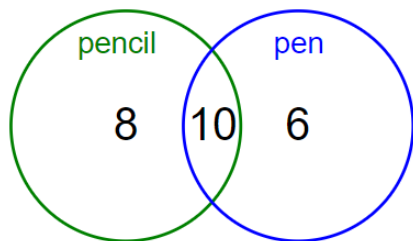


Pizza

Hot Wings



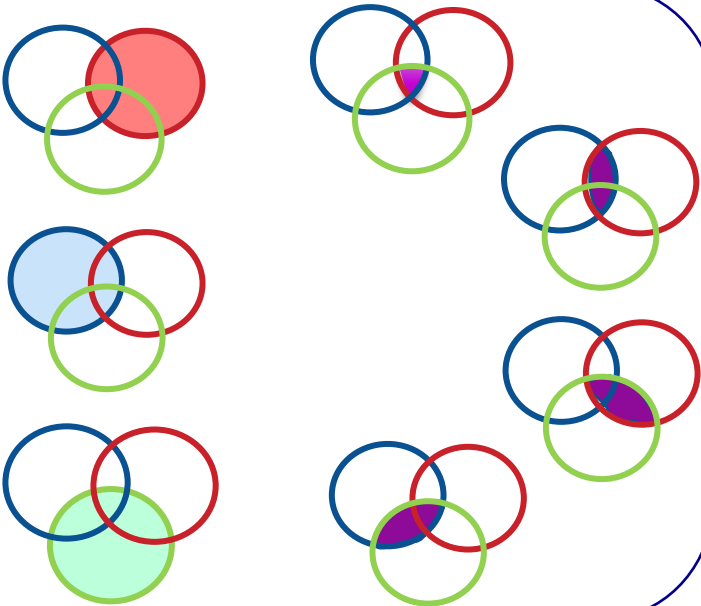
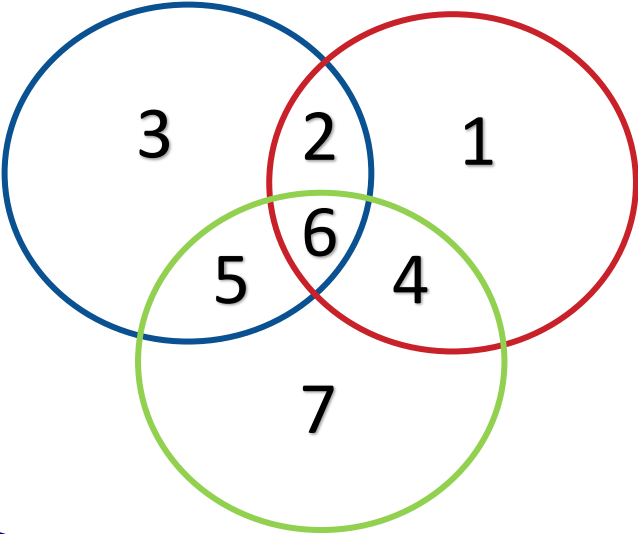
4. The venn diagram shown shows the results of a class survey regarding the number of students that use a pencil or pen for math class. Use the venn diagram to answer the following questions.



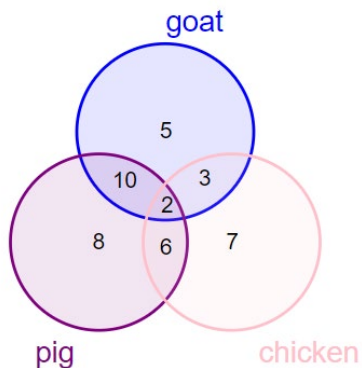
- A. How many students use a pencil? _____ students
- B. How many students use a pen? _____ students
- C. How many students use a pencil **and** pen? _____ students
- D. How many students were surveyed? _____ students
- E. How many students **only** use a pen? _____ students
- F. How many students **only** use a pencil? _____ students

II. Venn Diagrams with Three Circles

Color T-Shirt



6. The venn diagram shown shows the results of a class survey regarding the number of students that own a goat, pig, or chicken as a pet. Use the venn diagram to answer the following questions.



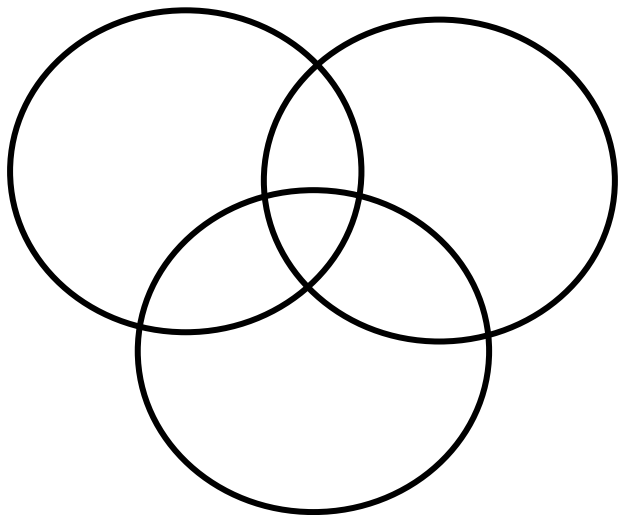
- A. How many students own a chicken? ____ students
- B. How many students own a pig? ____students
- C. How many students own a goat **and** chicken? ____students
- D. How many students were surveyed? ____students
- E. How many students **only** own a pig? ____students
- F. How many students **only** own a goat? ____students

III. Making Venn Diagrams with Data

The results of a recent class survey regarding the number of students that like to drink juice, water, or coffee with their breakfast is as follows: 28 students like to drink juice, 27 students like to drink water, 17 students like to drink coffee. 13 students like to drink juice and water. 7 students like to drink juice and coffee. 8 students like to drink water and coffee. 2 students like to drink all three.

There are 51 students in the class. How many students did not choose anything?

8. The results of a recent class survey regarding the number of students that own a dog, cat, or hamster as a pet is as follows: 12 students own a dog, 18 students own a cat, 14 students own a hamster. 3 students own a dog and cat. 4 students own a dog and hamster. 11 students own a cat and hamster. 1 students own a all three. There are 39 students in the class. How many students did not choose anything?



[illegible]