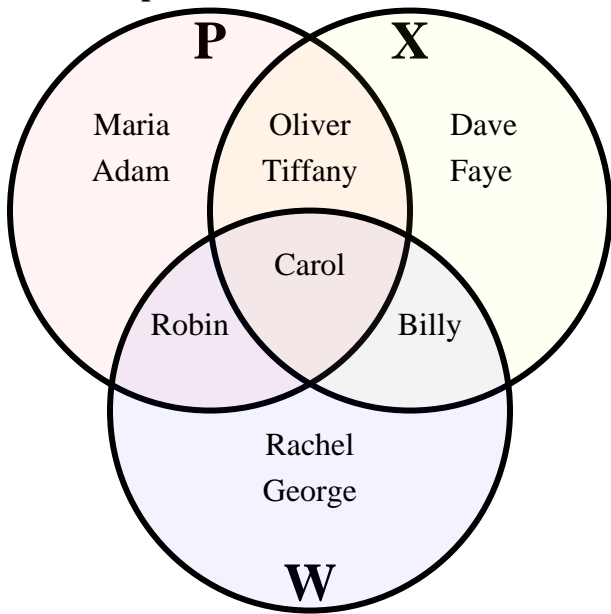




Solve each problem.



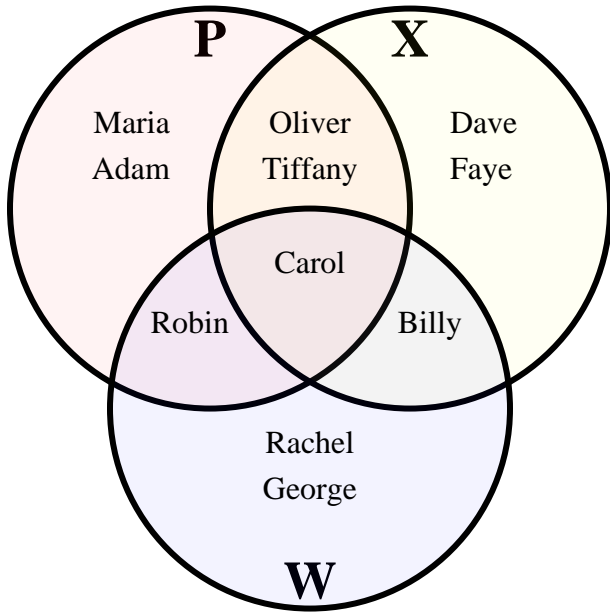
**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line

- 1) How many people owned a Playstation?
- 2) How many people owned a Xbox?
- 3) How many people owned a WiiU?
- 4) How many people owned ONLY a Playstation?
- 5) How many people owned ONLY a Xbox?
- 6) How many people owned ONLY a WiiU?
- 7)  $X \cup P =$  \_\_\_\_\_
- 8)  $X \cap P =$  \_\_\_\_\_
- 9)  $W - X =$  \_\_\_\_\_
- 10)  $(W \cap X) - P =$  \_\_\_\_\_
- 11)  $(P \cup W) - X =$  \_\_\_\_\_
- 12)  $X =$  \_\_\_\_\_
- 13)  $X \cap W \cap P =$  \_\_\_\_\_



Solve each problem.



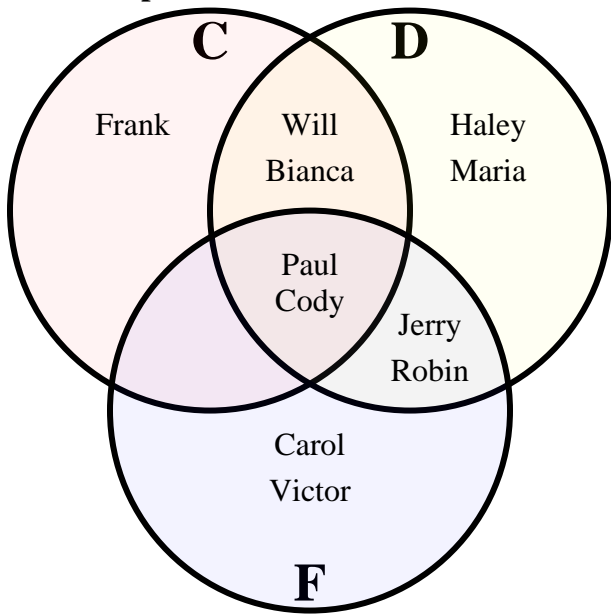
Answers

- 1) How many people owned a Playstation?
- 2) How many people owned a Xbox?
- 3) How many people owned a WiiU?
- 4) How many people owned ONLY a Playstation?
- 5) How many people owned ONLY a Xbox?
- 6) How many people owned ONLY a WiiU?
- 7)  $X \cup P =$  { Adam, Billy, Carol, Dave, Faye, Maria, Oliver, Robin, Tiffany }
- 8)  $X \cap P =$  { Carol, Oliver, Tiffany }
- 9)  $W - X =$  { George, Rachel, Robin }
- 10)  $(W \cap X) - P =$  { Billy }
- 11)  $(P \cup W) - X =$  { Adam, George, Maria, Rachel, Robin }
- 12)  $X =$  { Billy, Carol, Dave, Faye, Oliver, Tiffany }
- 13)  $X \cap W =$  { Carol }

1. 6
2. 6
3. 5
4. 2
5. 2
6. 2
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line



Solve each problem.



**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line

- 1) How many people owned a cat?
- 2) How many people owned a dog?
- 3) How many people owned a fish?
- 4) How many people owned ONLY a cat?
- 5) How many people owned ONLY a dog?
- 6) How many people owned ONLY a fish?

7)  $F \cup D =$  \_\_\_\_\_

8)  $F \cap D =$  \_\_\_\_\_

9)  $D - C =$  \_\_\_\_\_

10)  $(D \cap C) - F =$  \_\_\_\_\_

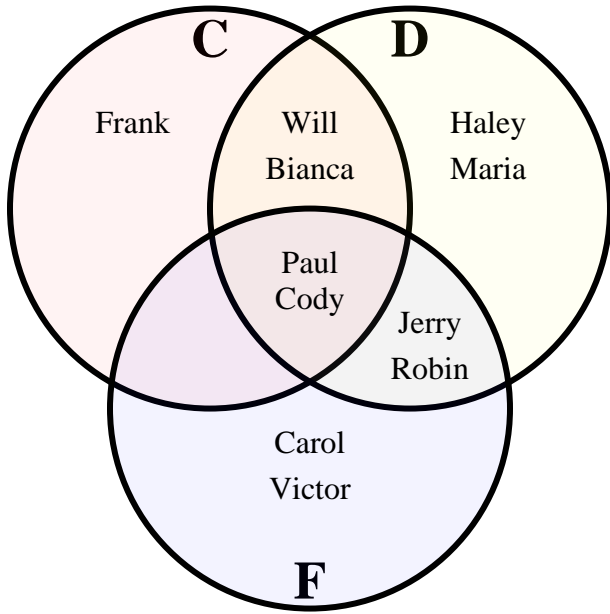
11)  $(D \cup F) - C =$  \_\_\_\_\_

12)  $C =$  \_\_\_\_\_

13)  $F \cap D =$  \_\_\_\_\_



Solve each problem.



- 1) How many people owned a cat?
- 2) How many people owned a dog?
- 3) How many people owned a fish?
- 4) How many people owned ONLY a cat?
- 5) How many people owned ONLY a dog?
- 6) How many people owned ONLY a fish?

7)  $F \cup D =$  { Bianca, Carol, Cody, Haley, Jerry, Maria, Paul, Robin, Victor, Will }

8)  $F \cap D =$  { Cody, Jerry, Paul, Robin }

9)  $D - C =$  { Haley, Jerry, Maria, Robin }

10)  $(D \cap C) - F =$  { Bianca, Will }

11)  $(D \cup F) - C =$  { Carol, Haley, Jerry, Maria, Robin, Victor }

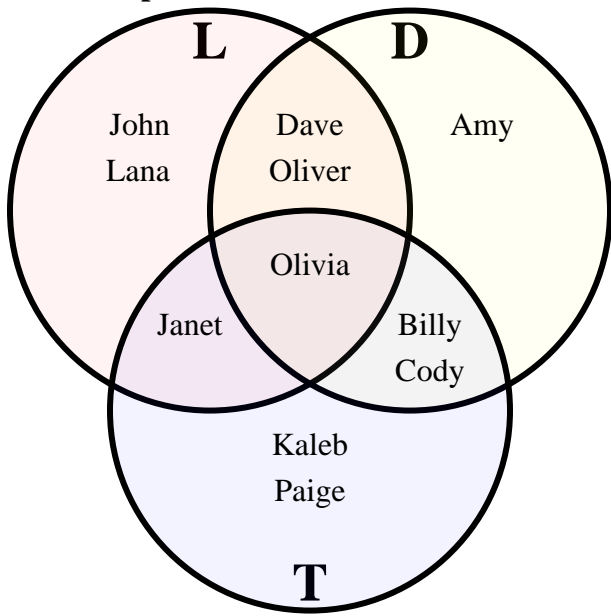
12)  $C =$  { Bianca, Cody, Frank, Paul, Will }

13)  $F \cap C =$  { Cody, Paul }

**Answers**1. 52. 83. 64. 15. 26. 27. Use Line8. Use Line9. Use Line10. Use Line11. Use Line12. Use Line13. Use Line



Solve each problem.



**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. **Use Line**

8. **Use Line**

9. **Use Line**

10. **Use Line**

11. **Use Line**

12. **Use Line**

13. **Use Line**

1) How many students owned a laptop computer?

2) How many students owned a desktop computer?

3) How many students owned a tablet?

4) How many students had ONLY a laptop computer?

5) How many students had ONLY a desktop computer?

6) How many students had ONLY a tablet?

7)  $T \cup L =$  \_\_\_\_\_

8)  $D \cap L =$  \_\_\_\_\_

9)  $L - T =$  \_\_\_\_\_

10)  $(L \cap T) - D =$  \_\_\_\_\_

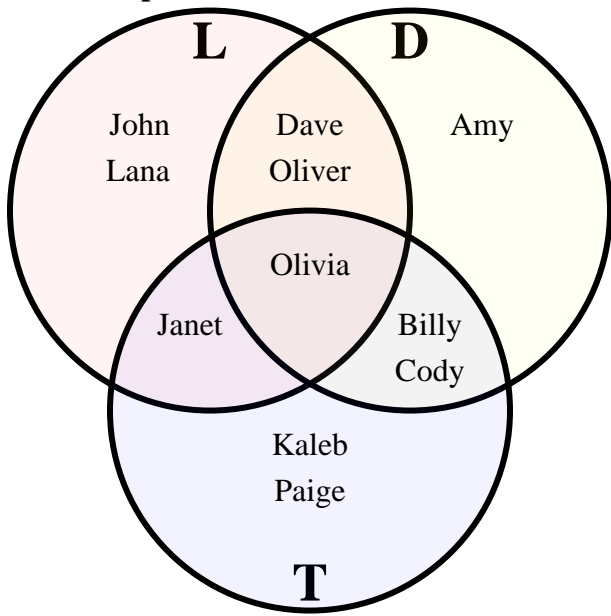
11)  $(D \cup T) - L =$  \_\_\_\_\_

12)  $T =$  \_\_\_\_\_

13)  $DTL =$  \_\_\_\_\_



Solve each problem.



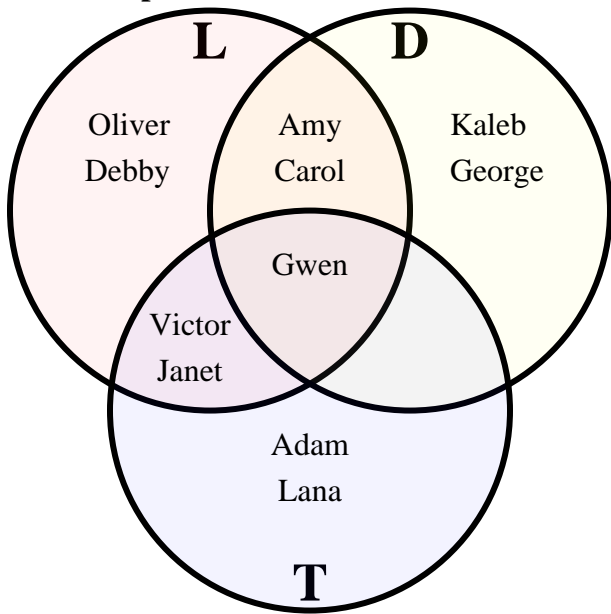
- 1) How many students owned a laptop computer?
- 2) How many students owned a desktop computer?
- 3) How many students owned a tablet?
- 4) How many students had ONLY a laptop computer?
- 5) How many students had ONLY a desktop computer?
- 6) How many students had ONLY a tablet?
- 7)  $T \cup L =$  {Billy,Cody,Dave,Janet,John,Kaleb,Lana,Oliver,Olivia,Paige}
- 8)  $D \cap L =$  {Dave,Oliver,Olivia}
- 9)  $L - T =$  {Dave,John,Lana,Oliver}
- 10)  $(L \cap T) - D =$  {Janet}
- 11)  $(D \cup T) - L =$  {Amy,Billy,Cody,Kaleb,Paige}
- 12)  $T =$  {Billy,Cody,Janet,Kaleb,Olivia,Paige}
- 13)  $D \cap T =$  {Olivia}

Answers

1. 6
2. 6
3. 6
4. 2
5. 1
6. 2
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line



Solve each problem.



**Answers**

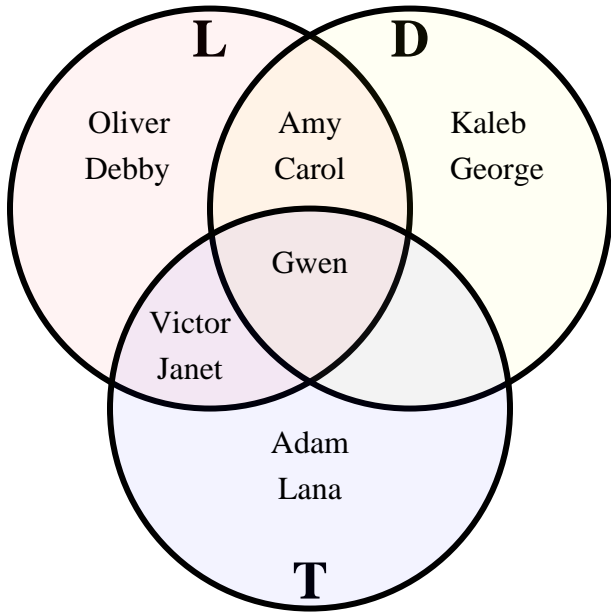
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line

- 1) How many students owned a laptop computer?
- 2) How many students owned a desktop computer?
- 3) How many students owned a tablet?
- 4) How many students had ONLY a laptop computer?
- 5) How many students had ONLY a desktop computer?
- 6) How many students had ONLY a tablet?

- 7)  $T \cup D =$  \_\_\_\_\_
- 8)  $D \cap T =$  \_\_\_\_\_
- 9)  $T - D =$  \_\_\_\_\_
- 10)  $(L \cap T) - D =$  \_\_\_\_\_
- 11)  $(L \cup T) - D =$  \_\_\_\_\_
- 12)  $T =$  \_\_\_\_\_
- 13)  $L \cap D \cap T =$  \_\_\_\_\_



Solve each problem.



**Answers**

- 1) How many students owned a laptop computer?
- 2) How many students owned a desktop computer?
- 3) How many students owned a tablet?
- 4) How many students had ONLY a laptop computer?
- 5) How many students had ONLY a desktop computer?
- 6) How many students had ONLY a tablet?

7)  $T \cup D =$  {Adam,Amy,Carol,George,Gwen,Janet,Kaleb,Lana,Victor}

8)  $D \cap T =$  {Gwen}

9)  $T - D =$  {Adam,Janet,Lana,Victor}

10)  $(L \cap T) - D =$  {Janet,Victor}

11)  $(L \cup T) - D =$  {Adam,Debby,Janet,Lana,Oliver,Victor}

12)  $T =$  {Adam,Gwen,Janet,Lana,Victor}

13)  $L \cap D \cap T =$  {Gwen}

1. 7

2. 5

3. 5

4. 2

5. 2

6. 2

7. Use Line

8. Use Line

9. Use Line

10. Use Line

11. Use Line

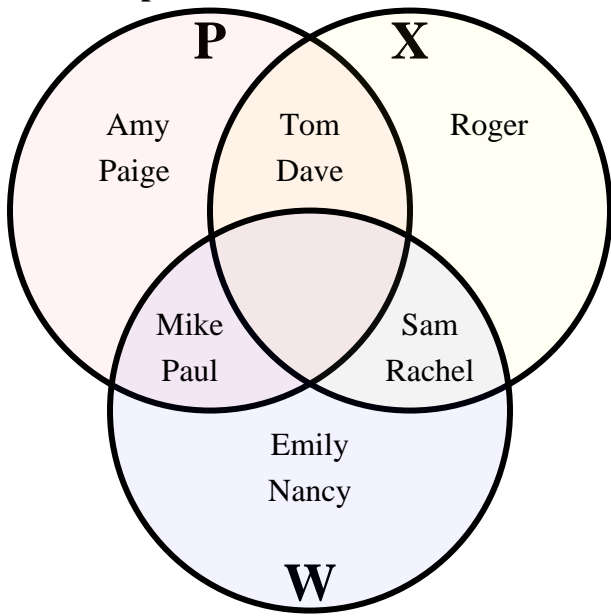
12. Use Line

13. Use Line





Solve each problem.



**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. **Use Line**

8. **Use Line**

9. **Use Line**

10. **Use Line**

11. **Use Line**

12. **Use Line**

13. **Use Line**

1) How many people owned a Playstation?

2) How many people owned a Xbox?

3) How many people owned a WiiU?

4) How many people owned ONLY a Playstation?

5) How many people owned ONLY a Xbox?

6) How many people owned ONLY a WiiU?

7)  $X \cup W =$  \_\_\_\_\_

8)  $W \cap X =$  \_\_\_\_\_

9)  $W - X =$  \_\_\_\_\_

10)  $(P \cap W) - X =$  \_\_\_\_\_

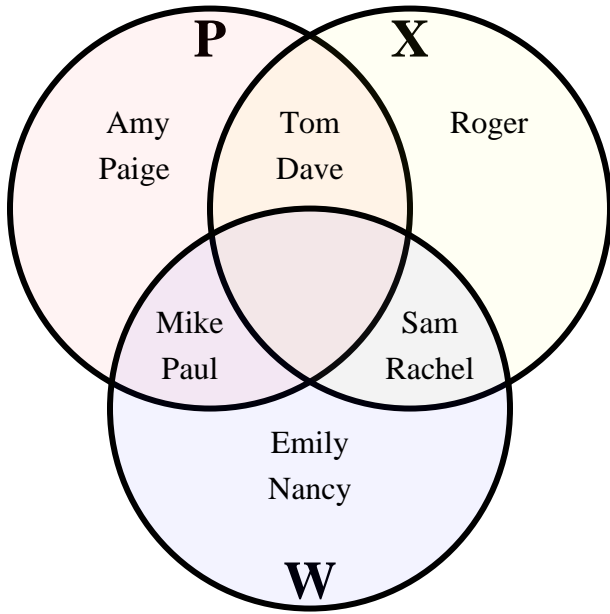
11)  $(P \cup W) - X =$  \_\_\_\_\_

12)  $W =$  \_\_\_\_\_

13)  $XPW =$  \_\_\_\_\_



Solve each problem.



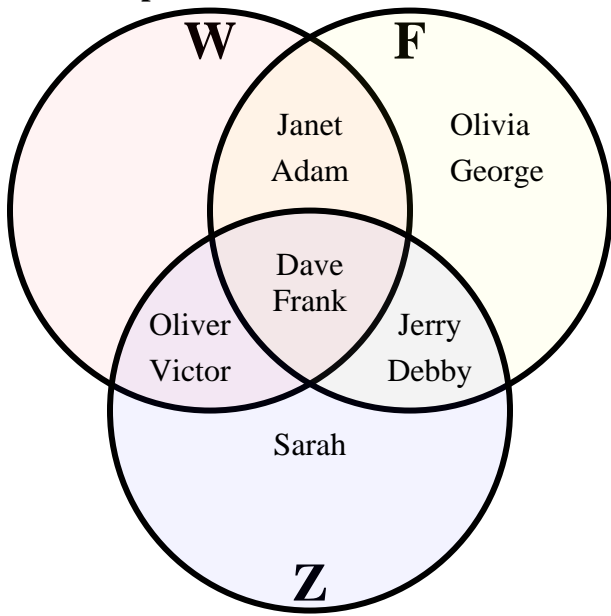
Answers

- 1) How many people owned a Playstation?
- 2) How many people owned a Xbox?
- 3) How many people owned a WiiU?
- 4) How many people owned ONLY a Playstation?
- 5) How many people owned ONLY a Xbox?
- 6) How many people owned ONLY a WiiU?
- 7)  $X \cup W =$  {Dave,Emily,Mike,Nancy,Paul,Rachel,Roger,Sam,Tom}
- 8)  $W \cap X =$  {Rachel,Sam}
- 9)  $W - X =$  {Emily,Mike,Nancy,Paul}
- 10)  $(P \cap W) - X =$  {Mike,Paul}
- 11)  $(P \cup W) - X =$  {Amy,Emily,Mike,Nancy,Paige,Paul}
- 12)  $W =$  {Emily,Mike,Nancy,Paul,Rachel,Sam}
- 13)  $XPW =$  {}

1. 6
2. 5
3. 6
4. 2
5. 1
6. 2
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line



Solve each problem.



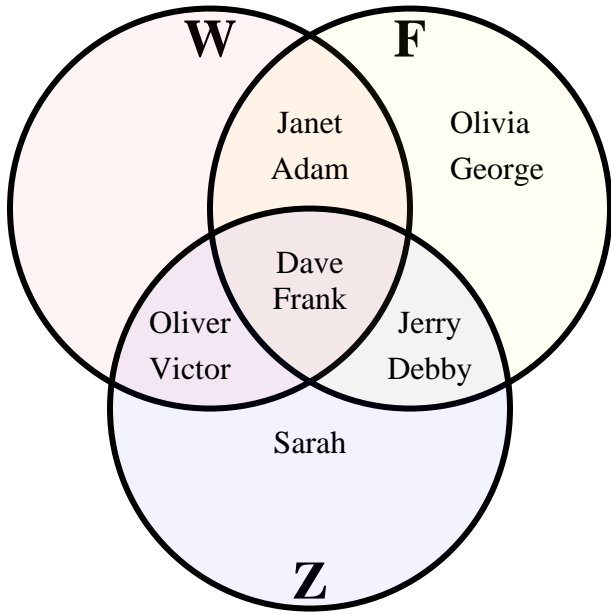
**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line

- 1) How many people had been to the water park? \_\_\_\_\_
- 2) How many people had been to the fair? \_\_\_\_\_
- 3) How many people had been to the zoo? \_\_\_\_\_
- 4) How many people had ONLY been to the water park? \_\_\_\_\_
- 5) How many people had ONLY been to the fair? \_\_\_\_\_
- 6) How many people had ONLY been to the zoo? \_\_\_\_\_
- 7)  $W \cup F =$  \_\_\_\_\_
- 8)  $W \cap F =$  \_\_\_\_\_
- 9)  $W - Z =$  \_\_\_\_\_
- 10)  $(F \cap W) - Z =$  \_\_\_\_\_
- 11)  $(W \cup F) - Z =$  \_\_\_\_\_
- 12)  $W =$  \_\_\_\_\_
- 13)  $Z \cap F \cap W =$  \_\_\_\_\_



Solve each problem.



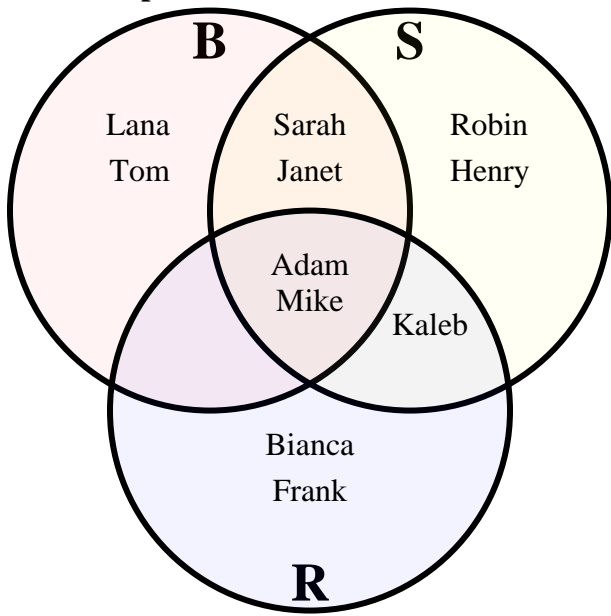
**Answers**

- 1) How many people had been to the water park?
- 2) How many people had been to the fair?
- 3) How many people had been to the zoo?
- 4) How many people had ONLY been to the water park?
- 5) How many people had ONLY been to the fair?
- 6) How many people had ONLY been to the zoo?
- 7)  $W \cup F =$  { Adam, Dave, Debby, Frank, George, Janet, Jerry, Oliver, Olivia, Victor }
- 8)  $W \cap F =$  { Adam, Dave, Frank, Janet }
- 9)  $W - Z =$  { Adam, Janet }
- 10)  $(F \cap W) - Z =$  { Adam, Janet }
- 11)  $(W \cup F) - Z =$  { Adam, George, Janet, Olivia }
- 12)  $W =$  { Adam, Dave, Frank, Janet, Oliver, Victor }
- 13)  $Z \cap W =$  { Dave, Frank }

1. 6
2. 8
3. 7
4. 0
5. 2
6. 1
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line



Solve each problem.



**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. **Use Line**

8. **Use Line**

9. **Use Line**

10. **Use Line**

11. **Use Line**

12. **Use Line**

13. **Use Line**

1) How many people had a bike?

2) How many people had a scooter?

3) How many people had roller blades?

4) How many people had ONLY a bike?

5) How many people had ONLY a scooter?

6) How many people had ONLY roller blades?

7)  $R \cup B =$  \_\_\_\_\_

8)  $S \cap R =$  \_\_\_\_\_

9)  $B - R =$  \_\_\_\_\_

10)  $(B \cap R) - S =$  \_\_\_\_\_

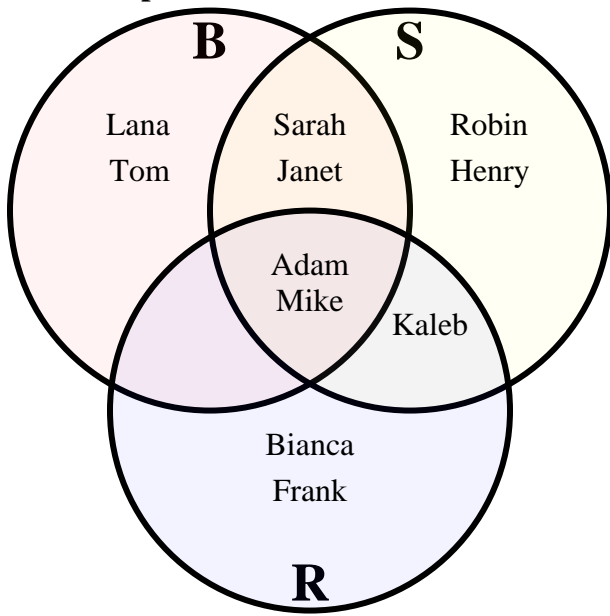
11)  $(B \cup R) - S =$  \_\_\_\_\_

12)  $B =$  \_\_\_\_\_

13)  $R \cap S =$  \_\_\_\_\_



Solve each problem.



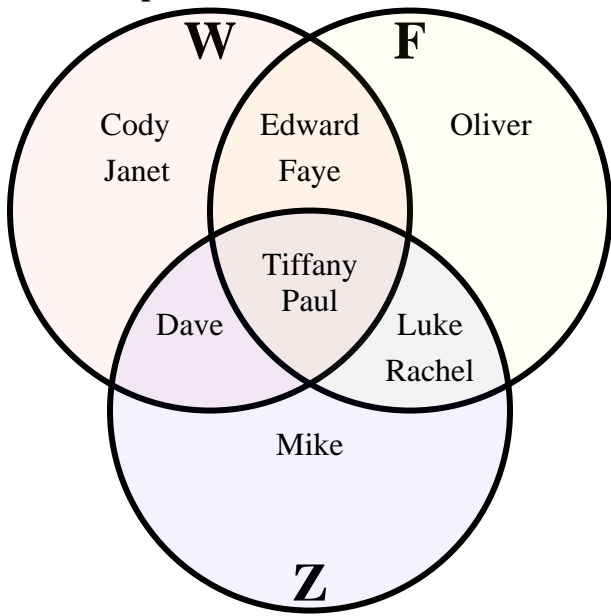
Answers

- 1) How many people had a bike?
- 2) How many people had a scooter?
- 3) How many people had roller blades?
- 4) How many people had ONLY a bike?
- 5) How many people had ONLY a scooter?
- 6) How many people had ONLY roller blades?
- 7)  $R \cup B =$  { Adam, Bianca, Frank, Janet, Kaleb, Lana, Mike, Sarah, Tom }
- 8)  $S \cap R =$  { Adam, Kaleb, Mike }
- 9)  $B - R =$  { Janet, Lana, Sarah, Tom }
- 10)  $(B \cap R) - S =$  { }
- 11)  $(B \cup R) - S =$  { Bianca, Frank, Lana, Tom }
- 12)  $B =$  { Adam, Janet, Lana, Mike, Sarah, Tom }
- 13)  $R \cap S =$  { Adam, Mike }

1. 6
2. 7
3. 5
4. 2
5. 2
6. 2
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line



Solve each problem.



Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. Use Line

8. Use Line

9. Use Line

10. Use Line

11. Use Line

12. Use Line

13. Use Line

1) How many people had been to the water park?

2) How many people had been to the fair?

3) How many people had been to the zoo?

4) How many people had ONLY been to the water park?

5) How many people had ONLY been to the fair?

6) How many people had ONLY been to the zoo?

7)  $W \cup F =$  \_\_\_\_\_

8)  $Z \cap F =$  \_\_\_\_\_

9)  $F - Z =$  \_\_\_\_\_

10)  $(F \cap W) - Z =$  \_\_\_\_\_

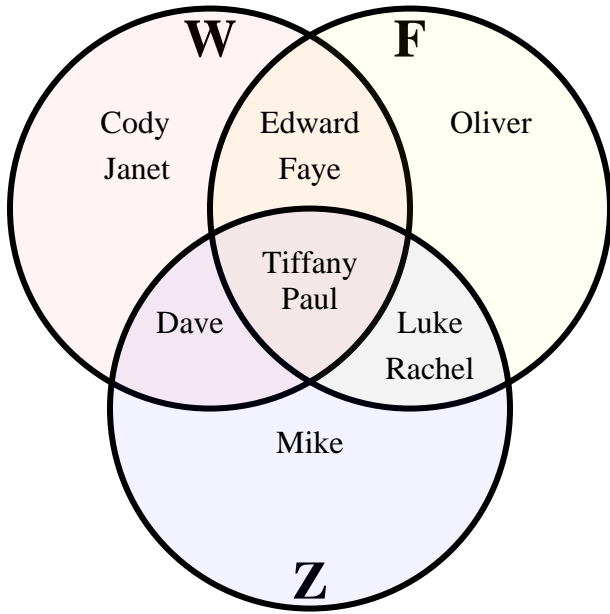
11)  $(F \cup W) - Z =$  \_\_\_\_\_

12)  $F =$  \_\_\_\_\_

13)  $Z \cap W \cap F =$  \_\_\_\_\_



Solve each problem.



**Answers**

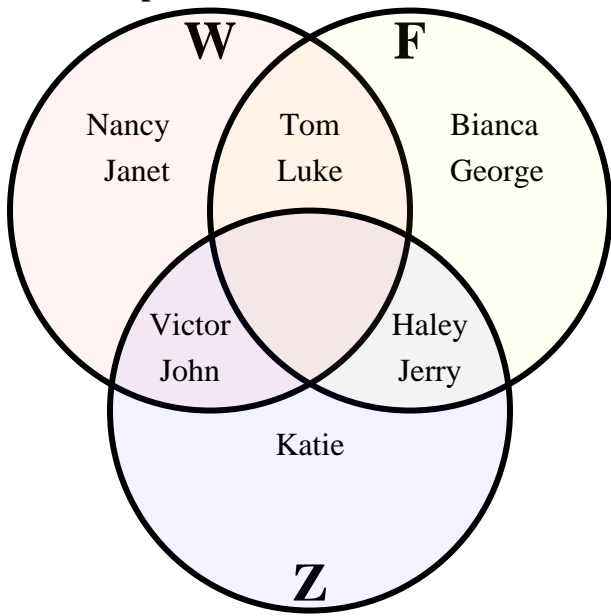
- 1) How many people had been to the water park?
- 2) How many people had been to the fair?
- 3) How many people had been to the zoo?
- 4) How many people had ONLY been to the water park?
- 5) How many people had ONLY been to the fair?
- 6) How many people had ONLY been to the zoo?
- 7)  $W \cup F =$  {Cody, Dave, Edward, Faye, Janet, Luke, Oliver, Paul, Rachel, Tiffany}
- 8)  $Z \cap F =$  {Luke, Paul, Rachel, Tiffany}
- 9)  $F - Z =$  {Edward, Faye, Oliver}
- 10)  $(F \cap W) - Z =$  {Edward, Faye}
- 11)  $(F \cup W) - Z =$  {Cody, Edward, Faye, Janet, Oliver}
- 12)  $F =$  {Edward, Faye, Luke, Oliver, Paul, Rachel, Tiffany}
- 13)  $Z \cap W \cap F =$  {Paul, Tiffany}

1. 7
2. 7
3. 6
4. 2
5. 1
6. 1
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line





Solve each problem.



**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. **Use Line**

8. **Use Line**

9. **Use Line**

10. **Use Line**

11. **Use Line**

12. **Use Line**

13. **Use Line**

1) How many people had been to the water park?

2) How many people had been to the fair?

3) How many people had been to the zoo?

4) How many people had ONLY been to the water park?

5) How many people had ONLY been to the fair?

6) How many people had ONLY been to the zoo?

7)  $F \cup W =$  \_\_\_\_\_

8)  $F \cap Z =$  \_\_\_\_\_

9)  $W - Z =$  \_\_\_\_\_

10)  $(W \cap Z) - F =$  \_\_\_\_\_

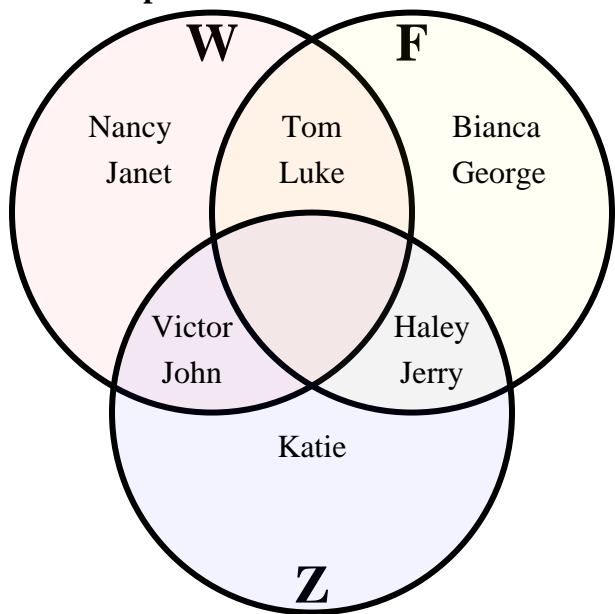
11)  $(F \cup W) - Z =$  \_\_\_\_\_

12)  $Z =$  \_\_\_\_\_

13)  $Z \cap F \cap W =$  \_\_\_\_\_



Solve each problem.



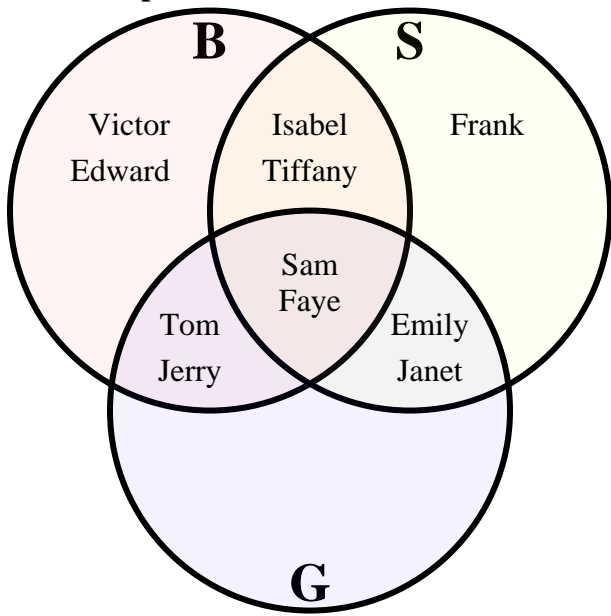
**Answers**

- 1) How many people had been to the water park?
- 2) How many people had been to the fair?
- 3) How many people had been to the zoo?
- 4) How many people had ONLY been to the water park?
- 5) How many people had ONLY been to the fair?
- 6) How many people had ONLY been to the zoo?
- 7)  $F \cup W =$  {Bianca,George,Haley,Janet,Jerry,John,Luke,Nancy,Tom,Victor}
- 8)  $F \cap Z =$  {Haley,Jerry}
- 9)  $W - Z =$  {Janet,Luke,Nancy,Tom}
- 10)  $(W \cap Z) - F =$  {John,Victor}
- 11)  $(F \cup W) - Z =$  {Bianca,George,Janet,Luke,Nancy,Tom}
- 12)  $Z =$  {Haley,Jerry,John,Katie,Victor}
- 13)  $Z \cap F \cap W =$  {}

1. 6
2. 6
3. 5
4. 2
5. 2
6. 1
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line



Solve each problem.



Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. Use Line

8. Use Line

9. Use Line

10. Use Line

11. Use Line

12. Use Line

13. Use Line

1) How many students played baseball?

2) How many students played soccer?

3) How many students played golf?

4) How many students played ONLY baseball?

5) How many students played ONLY soccer?

6) How many students played ONLY golf?

7)  $B \cup S =$  \_\_\_\_\_

8)  $B \cap S =$  \_\_\_\_\_

9)  $S - B =$  \_\_\_\_\_

10)  $(S \cap G) - B =$  \_\_\_\_\_

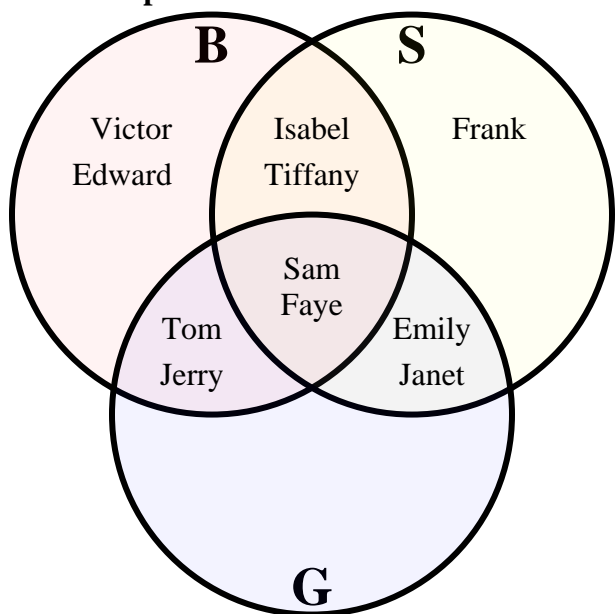
11)  $(B \cup G) - S =$  \_\_\_\_\_

12)  $S =$  \_\_\_\_\_

13)  $S \cap G =$  \_\_\_\_\_



Solve each problem.



**Answers**

1. 8
2. 7
3. 6
4. 2
5. 1
6. 0
7. Use Line
8. Use Line
9. Use Line
10. Use Line
11. Use Line
12. Use Line
13. Use Line

- 1) How many students played baseball?
- 2) How many students played soccer?
- 3) How many students played golf?
- 4) How many students played ONLY baseball?
- 5) How many students played ONLY soccer?
- 6) How many students played ONLY golf?
- 7)  $B \cup S =$  {Edward,Emily,Faye,Frank,Isabel,Janet,Jerry,Sam,Tiffany,Tom,Victor}
- 8)  $B \cap S =$  {Faye,Isabel,Sam,Tiffany}
- 9)  $S - B =$  {Emily, Frank, Janet}
- 10)  $(S \cap G) - B =$  {Emily, Janet}
- 11)  $(B \cup G) - S =$  {Edward, Jerry, Tom, Victor}
- 12)  $S =$  {Emily, Faye, Frank, Isabel, Janet, Sam, Tiffany}
- 13)  $S \cap G =$  {Faye, Sam}