The diagram below shows the different places students had been in the last year. Water Park (W), Fair (F) and Zoo (Z). Use the diagram to answer the questions.

1) How many people had been to the water park? 5
2) How many people had been to the fair? 6
3) How many people had been to the zoo? 5
4) How many people had ONLY been to the water park? 2
5) How many people had ONLY been to the fair? 2
6) How many people had ONLY been to the zoo? 2
7) \( W \cup Z = \{\text{Bill, Dan, Ed, Fran, Gary, Heath, Kelly, Mary, Nick}\} \)
8) \( Z \cap W = \{\text{Kelly}\} \)
9) \( W - Z = \{\text{Dan, Fran, Gary, Nick}\} \)
10) \( (W \cap Z) - F = \{\text{Kelly}\} \)
11) \( (F \cup W) - Z = \{\text{Cathy, Dan, Fran, Gary, Larry, Nick}\} \)
12) \( W = \{\text{Dan, Fran, Gary, Kelly, Nick}\} \)
13) \( WZF = \{\} \)
The diagram below shows the different places students had been in the last year. Water Park (W), Fair (F) and Zoo (Z). Use the diagram to answer the questions.

1) How many people had been to the water park? 5
2) How many people had been to the fair? 6
3) How many people had been to the zoo? 5
4) How many people had ONLY been to the water park? 2
5) How many people had ONLY been to the fair? 2
6) How many people had ONLY been to the zoo? 2
7) \( W \cup Z = \) {Bill, Dan, Ed, Fran, Gary, Heath, Kelly, Mary, Nick}
8) \( Z \cap W = \) {Kelly}
9) \( W - Z = \) {Dan, Fran, Gary, Nick}
10) \( (W \cap Z) - F = \) {Kelly}
11) \( (F \cup W) - Z = \) {Cathy, Dan, Fran, Gary, Larry, Nick}
12) \( W = \) {Dan, Fran, Gary, Kelly, Nick}
13) \( WZF = \) {}
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) \( G \cup B = \) ________________

8) \( G \cap S = \) ________________

9) \( G - B = \) ________________

10) \((B \cap G) - S = \) ________________

11) \((G \cup B) - S = \) ________________

12) \( S = \) ________________

13) \( BSG = \) ________________
The diagram below shows the different sports students played. Baseball (B), Soccer (S) and Golf (G). Use the diagram to answer the questions.

1) How many students played baseball? ______ 7 ______
2) How many students played soccer? ______ 6 ______
3) How many students played golf? ______ 7 ______
4) How many students played ONLY baseball? ______ 2 ______
5) How many students played ONLY soccer? ______ 1 ______
6) How many students played ONLY golf? ______ 1 ______
7) \( G \cup B \) = ______ {Anne, Bill, Dan, Ed, Fran, Gary, Heath, Jane, Kelly, Larry} ______
8) \( G \cap S \) = ______ {Anne, Bill, Ed, Jane} ______
9) \( G-B \) = ______ {Anne, Bill, Gary} ______
10) \( (B \cap G)-S \) = ______ {Kelly, Larry} ______
11) \( (G \cup B)-S \) = ______ {Dan, Gary, Heath, Kelly, Larry} ______
12) \( S \) = ______ {Anne, Bill, Cathy, Ed, Fran, Jane} ______
13) \( BSG \) = ______ {Ed, Jane} ______
The diagram below shows the different sports students played. Baseball (B), Soccer (S) and Golf(G). Use the diagram to answer the questions.

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) S∪B = ________________________________________
8) G∩S = ________________________________________
9) B-G = ________________________________________
10) (G∩S)-B = ________________________________________
11) (B∪S)-G = ________________________________________
12) B = ________________________________________
13) BGS = ________________________________________
The diagram below shows the different sports students played. Baseball (B), Soccer (S) and Golf (G). Use the diagram to answer the questions.

1) How many students played baseball? 7
2) How many students played soccer? 5
3) How many students played golf? 8
4) How many students played ONLY baseball? 2
5) How many students played ONLY soccer? 0
6) How many students played ONLY golf? 2
7) \(S \cup B = \{\text{Bill, Dan, Ed, Fran, Gary, Jane, Kelly, Larry, Nick}\}\)
8) \(G \cap S = \{\text{Bill, Jane, Kelly, Larry}\}\)
9) \(B - G = \{\text{Dan, Ed, Nick}\}\)
10) \((G \cap S) - B = \{\text{Kelly, Larry}\}\)
11) \((B \cup S) - G = \{\text{Dan, Ed, Nick}\}\)
12) \(B = \{\text{Bill, Dan, Ed, Fran, Gary, Jane, Nick}\}\)
13) \(B \cap S = \{\text{Bill, Jane}\}\)
The diagram below shows the different transportation students had. Bike (B), Scooter (S) and Roller Blades(R). Use the diagram to answer the questions.

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) \( R \cup S = \) ________________

8) \( S \cap B = \) ________________

9) \( S - R = \) ________________

10) \( (S \cap B) - R = \) ________________

11) \( (B \cup S) - R = \) ________________

12) \( S = \) ________________

13) \( RSB = \) ________________
The diagram below shows the different transportation students had. Bike (B), Scooter (S) and Roller Blades (R). Use the diagram to answer the questions.

1) How many people had a bike? 7
2) How many people had a scooter? 6
3) How many people had roller blades? 6
4) How many people had ONLY a bike? 2
5) How many people had ONLY a scooter? 1
6) How many people had ONLY roller blades? 1

7) \( R \cup S = \) \{Anne, Bill, Cathy, Ed, Fran, Heath, Kelly, Larry, Mary\}
8) \( S \cap B = \) \{Fran, Heath, Mary\}
9) \( S - R = \) \{Anne, Fran, Mary\}
10) \( (S \cap B) - R = \) \{Fran, Mary\}
11) \( (B \cup S) - R = \) \{Anne, Fran, Gary, Jane, Mary\}
12) \( S = \) \{Anne, Bill, Cathy, Fran, Heath, Mary\}
13) \( RSB = \) \{Heath\}
The diagram below shows which game console students own. Playstation (P), Xbox (X) and WiiU (W). Use the diagram to answer the questions.

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) P ∪ X = ________________________________________________

8) W ∩ X = ________________________________________________

9) W - X = ________________________________________________

10) (P ∩ W) - X = ________________________________________________

11) (W ∪ X) - P = ________________________________________________

12) X = ________________________________________________

13) PXW = ________________________________________________

Answers
1. ____________
2. ____________
3. ____________
4. ____________
5. ____________
6. ____________
7. ____________
8. ____________
9. ____________
10. ____________
11. ____________
12. ____________
13. ____________
The diagram below shows which game console students own. Playstation (P), Xbox (X) and WiiU(W). Use the diagram to answer the questions.

1) How many people owned a Playstation? 8
2) How many people owned a Xbox? 5
3) How many people owned a WiiU? 7
4) How many people owned ONLY a Playstation? 2
5) How many people owned ONLY a Xbox? 0
6) How many people owned ONLY a WiiU? 2
7) $P \cup X = \{\text{Anne, Bill, Dan, Ed, Fran, Gary, Jane, Larry, Nick}\}$
8) $W \cap X = \{\text{Bill, Dan, Ed}\}$
9) $W - X = \{\text{Cathy, Gary, Jane, Kelly}\}$
10) $(P \cap W) - X = \{\text{Gary, Jane}\}$
11) $(W \cup X) - P = \{\text{Cathy, Dan, Kelly}\}$
12) $X = \{\text{Anne, Bill, Dan, Ed, Nick}\}$
13) $PXW = \{\text{Bill, Ed}\}$
The diagram below shows the different sports students played. Baseball (B), Soccer (S) and Golf (G). Use the diagram to answer the questions.

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) S $\cap$ G = __________________________
9) B - G = __________________________
10) (B $\cap$ G) - S = __________________________
11) (B $\cup$ G) - S = __________________________
12) B = __________________________
13) GBS = __________________________
The diagram below shows the different sports students played. Baseball (B), Soccer (S) and Golf(G). Use the diagram to answer the questions.

1) How many students played baseball? _____ 6 _____

2) How many students played soccer? _____ 8 _____

3) How many students played golf? _____ 5 _____

4) How many students played ONLY baseball? _____ 2 _____

5) How many students played ONLY soccer? _____ 2 _____

6) How many students played ONLY golf? _____ 1 _____

7) \( B \cup S \) = \{Bill, Cathy, Dan, Fran, Gary, Heath, Kelly, Larry, Mary, Nick\}

8) \( S \cap G \) = \{Dan, Gary, Kelly, Nick\}

9) \( B-G \) = \{Cathy, Fran, Heath, Mary\}

10) \( (B \cap G)-S \) = \{\}

11) \( (B \cup G)-S \) = \{Ed, Fran, Mary\}

12) \( B \) = \{Cathy, Dan, Fran, Gary, Heath, Mary\}

13) \( GBS \) = \{Dan, Gary\}
The diagram below shows which pet students own. Cat (C), Dog (D) and Fish (F). Use the diagram to answer the questions.

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) \( D \cup C = \ ____________________________ \)
8) \( D \cap F = \ ____________________________ \)
9) \( C - F = \ ____________________________ \)
10) \( (D \cap C) - F = \ ____________________________ \)
11) \( (C \cup D) - F = \ ____________________________ \)
12) \( C = \ ____________________________ \)
13) \( DFC = \ ____________________________ \)

Answers

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

www.CommonCoreSheets.com
The diagram below shows which pet students own. Cat (C), Dog (D) and Fish(F). Use the
diagram to answer the questions.

1) How many people owned a cat? 5
2) How many people owned a dog? 7
3) How many people owned a fish? 7
4) How many people owned ONLY a cat? 0
5) How many people owned ONLY a dog? 2
6) How many people owned ONLY a fish? 2
7) \(D \cup C = \) {Bill, Cathy, Ed, Fran, Jane, Kelly, Larry, Mary, Nick}
8) \(D \cap F = \) {Cathy, Larry, Nick}
9) \(C - F = \) {Bill, Ed}
10) \((D \cap C) - F = \) {Bill, Ed}
11) \((C \cup D) - F = \) {Bill, Ed, Jane, Kelly}
12) \(C = \) {Bill, Ed, Fran, Larry, Mary}
13) \(DFC = \) {Larry}
The diagram below shows the different places students had been in the last year. Water Park (W), Fair (F) and Zoo (Z). Use the diagram to answer the questions.

1) How many people had been to the water park? 6
2) How many people had been to the fair? 8
3) How many people had been to the zoo? 7
4) How many people had ONLY been to the water park? 0
5) How many people had ONLY been to the fair? 2
6) How many people had ONLY been to the zoo? 1
7) $Z \cup W =$
8) $Z \cap F =$
9) $F - W =$
10) $(F \cap W) - Z =$
11) $(F \cup Z) - W =$
12) $Z =$
13) $FWZ =$
The diagram below shows the different places students had been in the last year. Water Park (W), Fair (F) and Zoo (Z). Use the diagram to answer the questions.

1) How many people had been to the water park? 6
2) How many people had been to the fair? 8
3) How many people had been to the zoo? 7
4) How many people had ONLY been to the water park? 0
5) How many people had ONLY been to the fair? 2
6) How many people had ONLY been to the zoo? 1

7) \(Z \cup W = \{\text{Anne, Cathy, Dan, Fran, Gary, Kelly, Larry, Mary, Nick}\}\)
8) \(Z \cap F = \{\text{Anne, Kelly, Larry, Mary}\}\)
9) \(F - W = \{\text{Ed, Jane, Kelly, Mary}\}\)
10) \((F \cap W) - Z = \{\text{Fran, Gary}\}\)
11) \((F \cup Z) - W = \{\text{Cathy, Ed, Jane, Kelly, Mary}\}\)
12) \(Z = \{\text{Anne, Cathy, Dan, Kelly, Larry, Mary, Nick}\}\)
13) \(FWZ = \{\text{Anne, Larry}\}\)
The diagram below shows which pet students own. Cat (C), Dog (D) and Fish (F). Use the diagram to answer the questions.

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 ∪ C = ____________________________
8) D ∩ C = ____________________________
9) D - F = ____________________________
10) (C ∩ D) - F = ____________________________
11) (D ∪ F) - C = ____________________________
12) C = ____________________________
13) C ∩ F = ____________________________
The diagram below shows which pet students own. Cat (C), Dog (D) and Fish (F). Use the diagram to answer the questions.

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

7) $\text{F} \cup \text{C} = \{\text{Anne, Bill, Ed, Fran, Gary, Heath, Jane, Kelly, Mary, Nick}\}$
8) $\text{D} \cap \text{C} = \{\text{Anne, Jane, Kelly}\}$
9) $\text{D} - \text{F} = \{\text{Anne, Dan, Kelly}\}$
10) $(\text{C} \cap \text{D}) - \text{F} = \{\text{Anne, Kelly}\}$
11) $(\text{D} \cup \text{F}) - \text{C} = \{\text{Dan, Ed, Fran, Gary, Nick}\}$
12) $\text{C} = \{\text{Anne, Bill, Heath, Jane, Kelly, Mary}\}$
13) $\text{CFD} = \{\text{Jane}\}$
The diagram below shows the different computers students had at their house. Laptop (L), Desktop (D) and Tablet (T). Use the diagram to answer the questions.

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) \( D \cup L = \) ____________

8) \( T \cap L = \) ____________

9) \( D-L = \) ____________

10) \( (L \cap T)-D = \) ____________

11) \( (T \cup L)-D = \) ____________

12) \( D = \) ____________

13) \( TDL = \) ____________
The diagram below shows the different computers students had at their house. Laptop (L), Desktop (D) and Tablet(T). Use the diagram to answer the questions.

1) How many students owned a laptop computer? 7
2) How many students owned a desktop computer? 5
3) How many students owned a tablet? 6
4) How many students had ONLY a laptop computer? 2
5) How many students had ONLY a desktop computer? 1
6) How many students had ONLY a tablet? 2
7) D∪L = {Anne, Bill, Fran, Gary, Heath, Kelly, Larry, Mary, Nick}
8) T∩L = {Bill, Heath, Mary}
9) D-L = {Kelly, Larry}
10) (L∩T)-D = {Heath, Mary}
11) (T∪L)-D = {Anne, Ed, Gary, Heath, Jane, Mary}
12) D = {Bill, Fran, Kelly, Larry, Nick}
13) TDL = {Bill}