## Solve each problem.



1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$ Use Line
8. 

## Use Line

9. Use Line
10. Use Line
11. Use Line
12. $\qquad$
13. $\qquad$
7) $\mathrm{X} \cup \mathrm{P}=$ $\qquad$
8) $\mathrm{X} \cap \mathrm{P}=$ $\qquad$
9) $\mathrm{W}-\mathrm{X}=$ $\qquad$
10) $(\mathrm{W} \cap \mathrm{X})-\mathrm{P}=$ $\qquad$
11) $(\mathrm{P} \cup \mathrm{W})-\mathrm{X}=$ $\qquad$
12) $X=$ $\qquad$
13) $\mathrm{XWP}=$ $\qquad$


## Solve each problem.

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
Use Line
8. $\qquad$ Use Line
9. Use Line
10. Use Line
11. Use Line
12. $\qquad$
13. $\qquad$
7) $\mathrm{F} \cup \mathrm{D}=$ $\qquad$
8) $\mathrm{F} \cap \mathrm{D}=$ $\qquad$
9) $\mathrm{D}-\mathrm{C}=$ $\qquad$
10) $(\mathrm{D} \cap \mathrm{C})-\mathrm{F}=$ $\qquad$
11) $(\mathrm{D} \cup \mathrm{F})-\mathrm{C}=$ $\qquad$
12) $\mathrm{C}=$ $\qquad$
13) $\mathrm{FCD}=$ $\qquad$


## Solve each problem.

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$ Use Line
9. Use Line
10. Use Line
11. Use Line
12. $\qquad$
13. $\qquad$
7) $\mathrm{T} \cup \mathrm{L}=$ $\qquad$
8) $\mathrm{D} \cap \mathrm{L}=$ $\qquad$
9) $\mathrm{L}-\mathrm{T}=$ $\qquad$
10) $(\mathrm{L} \cap \mathrm{T})-\mathrm{D}=$ $\qquad$
11) $(\mathrm{D} \cup \mathrm{T})-\mathrm{L}=$ $\qquad$
12) $\mathrm{T}=$ $\qquad$
13) $\mathrm{DTL}=$ $\qquad$

## 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?

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. 2
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. $\qquad$
11. $\qquad$
12. $\qquad$
13. $\qquad$
7) $\mathrm{T} \cup \mathrm{L}=$ $\qquad$
8) $\mathrm{D} \cap \mathrm{L}=$ $\qquad$
9) $\mathrm{L}-\mathrm{T}=$ $\qquad$ \{Dave,John,Lana,Oliver \}
10) $(\mathrm{L} \cap \mathrm{T})-\mathrm{D}=$ $\qquad$
11) $(\mathrm{D} \cup \mathrm{T})-\mathrm{L}=$ $\qquad$
12) $T=$ $\qquad$ \{Billy,Cody,Janet,Kaleb,Olivia,Paige \}
13) $\mathrm{DTL}=$ $\qquad$ \{Olivia\}

## Solve each problem.

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$ Use Line
9. Use Line
10. $\qquad$
11. $\qquad$
12. $\qquad$
13. $\qquad$
7) $\mathrm{T} \cup \mathrm{D}=$ $\qquad$
8) $\mathrm{D} \cap \mathrm{T}=$ $\qquad$
9) $\mathrm{T}-\mathrm{D}=$ $\qquad$
10) $(\mathrm{L} \cap \mathrm{T})-\mathrm{D}=$ $\qquad$
11) $(\mathrm{L} \cup \mathrm{T})-\mathrm{D}=$ $\qquad$
12) $\mathrm{T}=$ $\qquad$
13) LDT $=$ $\qquad$




## Solve each problem.

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$ Use Line
1) How many people had been to the water park?
2) How many people had been to the fair?
8. $\qquad$ Use Line
9. Use Line
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?
10. Use Line
11. Use Line
12. $\qquad$
13. $\qquad$
7) $\mathrm{W} \cup \mathrm{F}=$ $\qquad$
8) $\mathrm{W} \cap \mathrm{F}=$ $\qquad$
9) $\mathrm{W}-\mathrm{Z}=$ $\qquad$
10) $(\mathrm{F} \cap \mathrm{W})-\mathrm{Z}=$ $\qquad$
11) $(\mathrm{W} \cup \mathrm{F})-\mathrm{Z}=$ $\qquad$
12) $\mathrm{W}=$ $\qquad$
13) $\mathrm{ZFW}=$ $\qquad$

## Solve each problem.



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?

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. 0
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$

10 $\qquad$
11. $\qquad$
12. $\qquad$
13. $\qquad$
7) $\mathrm{W} \cup \mathrm{F}=\underline{\{\text { Adam,Dave,Debby,Frank,George,Janet,Jerry,Oliver,Olivia,Victor }\}}$
8) $\mathrm{W} \cap \mathrm{F}=$ \{Adam,Dave,Frank,Janet \}
9) $\mathrm{W}-\mathrm{Z}=$ $\qquad$
10) $(\mathrm{F} \cap \mathrm{W})-\mathrm{Z}=$ $\qquad$
11) $(\mathrm{W} \cup \mathrm{F})-\mathrm{Z}=$ $\qquad$
12) $\mathrm{W}=$ $\qquad$
13) $\mathrm{ZFW}=$ \{Dave,Frank \} \{Adam,Dave,Frank,Janet,Oliver,Victor \}

## Solve each problem.

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$ Use Line
1) How many people had a bike?
2) How many people had a scooter?
8. 

## Use Line

9. $\qquad$
10. $\qquad$
11. $\qquad$
12. $\qquad$
13. $\qquad$
7) $\mathrm{R} \cup \mathrm{B}=$ $\qquad$
8) $\mathrm{S} \cap \mathrm{R}=$ $\qquad$
9) $\mathrm{B}-\mathrm{R}=$ $\qquad$
10) $(\mathrm{B} \cap \mathrm{R})-\mathrm{S}=$ $\qquad$
11) $(B \cup R)-S=$ $\qquad$
12) $\mathrm{B}=$ $\qquad$
13) $\mathrm{RBS}=$ $\qquad$


## Solve each problem.

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$ Use Line
8. 

## Use Line

9. Use Line
10. Use Line
11. $\qquad$
12. $\qquad$
13. $\qquad$
7) $\mathrm{W} \cup \mathrm{F}=$ $\qquad$
8) $\mathrm{Z} \cap \mathrm{F}=$ $\qquad$
9) $\mathrm{F}-\mathrm{Z}=$ $\qquad$
10) $(\mathrm{F} \cap \mathrm{W})-\mathrm{Z}=$ $\qquad$
11) $(\mathrm{F} \cup \mathrm{W})-\mathrm{Z}=$ $\qquad$
12) $\mathrm{F}=$ $\qquad$
13) $\mathrm{ZWF}=$ $\qquad$

## 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?
9. 
10. 
11. 
12. 
13. Use Line
$\qquad$
14. Use Line
$\qquad$
$\qquad$
$\qquad$
Use Line
$\qquad$ Use Line Use Line Use Line
7) $\mathrm{W} \cup \mathrm{F}=$ \{Cody,Dave,Edward,Faye,Janet,Luke,Oliver,Paul,Rachel,Tiffany \}
8) $\mathrm{Z} \cap \mathrm{F}=$ $\qquad$
9) $\mathrm{F}-\mathrm{Z}=$ $\qquad$
10) $(\mathrm{F} \cap \mathrm{W})-\mathrm{Z}=$ $\qquad$
11) $(\mathrm{F} \cup \mathrm{W})-\mathrm{Z}=$ $\qquad$
12) $\mathrm{F}=$ $\qquad$
13) $\mathrm{ZWF}=$ \{Paul,Tiffany \}
\{Edward,Faye\}
\{Cody,Edward,Faye,Janet,Oliver\}
7. Use Line

## Solve each problem.

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$ Use Line
1) How many people had been to the water park?
8. $\qquad$ Use Line
2) How many people had been to the fair?
9. Use Line
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?
10. Use Line
11. Use Line
12. $\qquad$
13. $\qquad$
7) $\mathrm{F} \cup \mathrm{W}=$ $\qquad$
8) $\mathrm{F} \cap \mathrm{Z}=$ $\qquad$
9) $\mathrm{W}-\mathrm{Z}=$ $\qquad$
10) $(\mathrm{W} \cap \mathrm{Z})-\mathrm{F}=$ $\qquad$
11) $(\mathrm{F} \cup \mathrm{W})-\mathrm{Z}=$ $\qquad$
12) $\mathrm{Z}=$ $\qquad$
13) $\mathrm{ZFW}=$ $\qquad$

## Solve each problem.

## Answers



1. $\qquad$
2. $\qquad$
3. $\qquad$
4. 2
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$

10 $\qquad$
11. $\qquad$
12. $\qquad$
13. $\qquad$
7) $\mathrm{F} \cup \mathrm{W}=$ $\qquad$
\{Bianca,George,Haley,Janet,Jerry,John,Luke,Nancy,Tom,Victor\}
8) $\mathrm{F} \cap \mathrm{Z}=$ $\qquad$ \{Haley,Jerry \}
9) $\mathrm{W}-\mathrm{Z}=$ $\qquad$ \{Janet,Luke,Nancy,Tom \}
10) $(\mathrm{W} \cap \mathrm{Z})-\mathrm{F}=$ $\qquad$ \{John,Victor\}
11) $(\mathrm{F} \cup \mathrm{W})-\mathrm{Z}=$ $\qquad$
12) $Z=$ $\qquad$
13) $\mathrm{ZFW}=$ \{ \}

## Solve each problem.

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$ Use Line
1) How many students played baseball?
2) How many students played soccer?
9. Use Line
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?
10. Use Line
11. Use Line
12. $\qquad$ Use Line
13. Use Line
7) $\mathrm{B} \cup \mathrm{S}=$ $\qquad$
8) $\mathrm{B} \cap \mathrm{S}=$ $\qquad$
9) $\mathrm{S}-\mathrm{B}=$ $\qquad$
10) $(\mathrm{S} \cap \mathrm{G})-\mathrm{B}=$ $\qquad$
11) $(B \cup G)-S=$ $\qquad$
12) $\mathrm{S}=$ $\qquad$
13) $\mathrm{SGB}=$ $\qquad$

