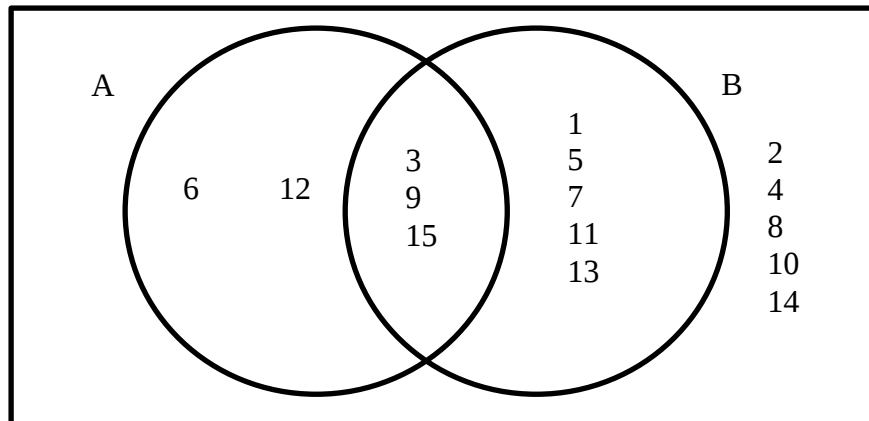


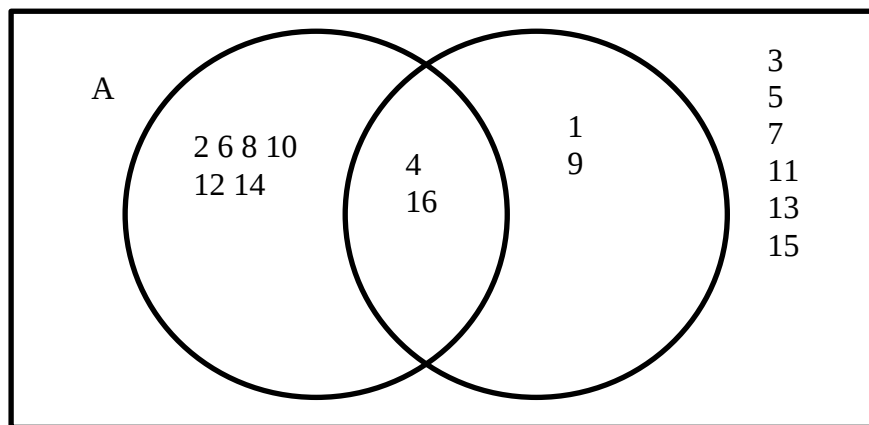
Venn Diagram Solutions

Green Section

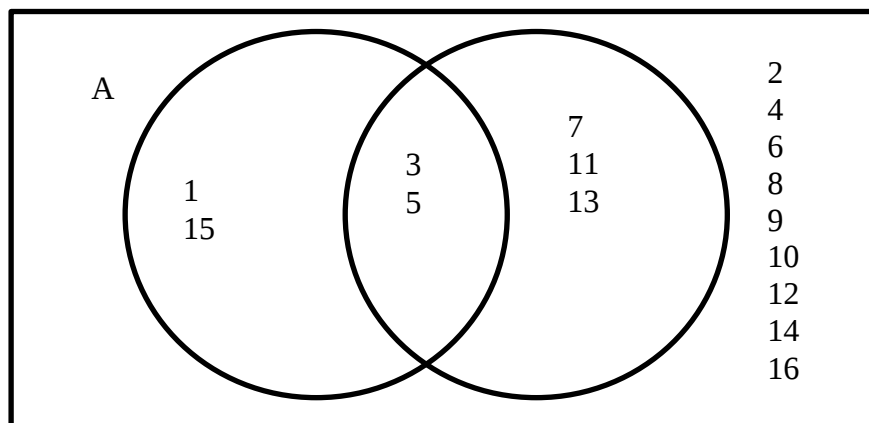
1.



2.



3.



### Yellow Section

1. a)  $P(B) = \frac{3}{9} = \frac{1}{3}$   
b)  $P(A \cap B) = \frac{1}{9}$   
c)  $P(A \cup B) = \frac{6}{9} = \frac{2}{3}$

2. a)  $P(C) = \frac{4}{10} = \frac{2}{5}$   
b)  $P(C') = \frac{6}{10} = \frac{3}{5}$   
c)  $P(D') = \frac{6}{10} = \frac{3}{5}$

3. a)  $P(E) = \frac{5}{15} = \frac{1}{3}$   
b)  $P(F) = \frac{6}{15} = \frac{2}{5}$   
c)  $P(G) = \frac{6}{15} = \frac{2}{5}$   
d)  $P(E \cap F) = \frac{2}{15}$   
e)  $P(F \cup G) = \frac{10}{15} = \frac{2}{3}$   
f)  $P(E') = \frac{10}{15} = \frac{2}{3}$

### Red Section

1.

| Stem | Leaf    |
|------|---------|
| 2    | 7, 9    |
| 3    | 2, 4, 8 |
| 4    | 1, 9    |

Key:  $2|7 = 2.7$

2.

| Stem | Leaf    |
|------|---------|
| 7    | 3, 7, 8 |
| 8    | 4, 5    |
| 9    | 1, 5    |

Key:  $7|3 = 7.3$

3.

| Stem | Leaf    |
|------|---------|
| 5    | 6, 9    |
| 6    | 0, 4, 8 |
| 7    | 2, 7    |

Key:  $5|6 = 5.6$

4.

| Stem | Leaf    |
|------|---------|
| 10   | 7       |
| 11   | 0, 2, 9 |

|    |      |
|----|------|
| 12 | 3, 9 |
|----|------|

Key:  $10|7 = 10.7$

5.

| Stem | Leaf    |
|------|---------|
| 2    | 8, 9    |
| 3    | 1, 6, 8 |
| 4    | 0, 2, 7 |

Key:  $2|8 = 2.8$

6.

| Stem | Leaf |
|------|------|
| 21   | 3, 8 |
| 22   | 3, 8 |
| 23   | 0, 2 |

Key:  $21|3 = 21.3$

7.

| Stem | Leaf    |
|------|---------|
| 0    | 6, 8, 9 |
| 1    | 1, 3, 9 |
| 2    | 3, 4    |

Key:  $0|6 = 0.6$

8.

| Stem | Leaf    |
|------|---------|
| 1    | 4, 9, 9 |
| 2    | 2, 6    |
| 3    | 2, 7    |
| 4    | 7       |

Key:  $1|4 = 1.4$

9.

| Stem | Leaf    |
|------|---------|
| 32   | 5, 7, 9 |
| 33   | 1, 2    |
| 34   | 6       |

Key:  $32|5 = 32.5$

10.

| Stem | Leaf |
|------|------|
| 77   | 0, 1 |
| 78   | 4, 4 |
| 79   | 1, 6 |

Key:  $77|0 = 77.0$

11.

| Stem | Leaf    |
|------|---------|
| 87   | 2, 4, 4 |
| 88   | 1, 9    |

|    |   |
|----|---|
| 89 | 0 |
|----|---|

Key:  $87|7 = 87.2$

12.

| Stem | Leaf    |
|------|---------|
| 64   | 1, 5    |
| 65   | 4, 6, 8 |
| 66   | 2       |

Key:  $64|1 = 64.1$

### Apply

- a) Mode = 25, 31, 46
  - b) Median = 32.5
  - c) Range = 26
- Not in ascending order.

No key

| Stem | Leaf                   |
|------|------------------------|
| 7    | 1, 4, 5, 7, 8          |
| 8    | 1, 1, 2, 4, 5, 6, 7, 9 |
| 9    | 3, 3, 4, 5, 6, 8, 9    |
| 10   | 3, 4, 6, 7, 9, 9       |

Key: Need original data to be sure what the data represents.