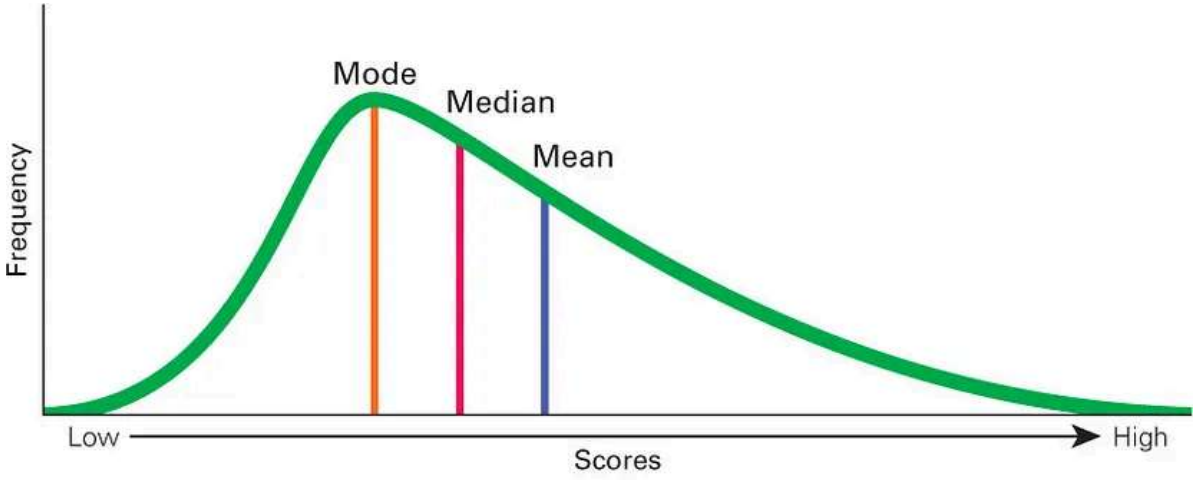
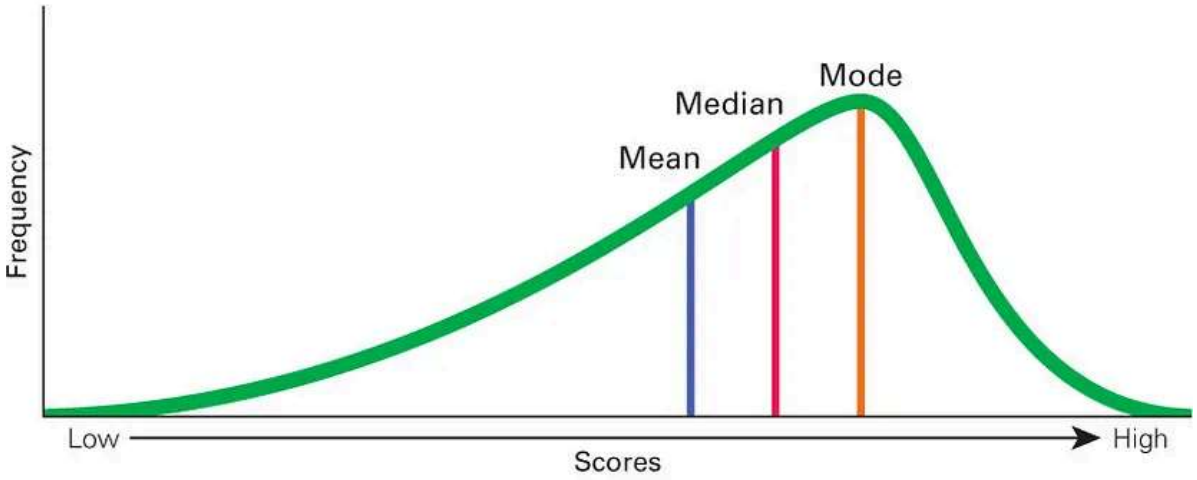
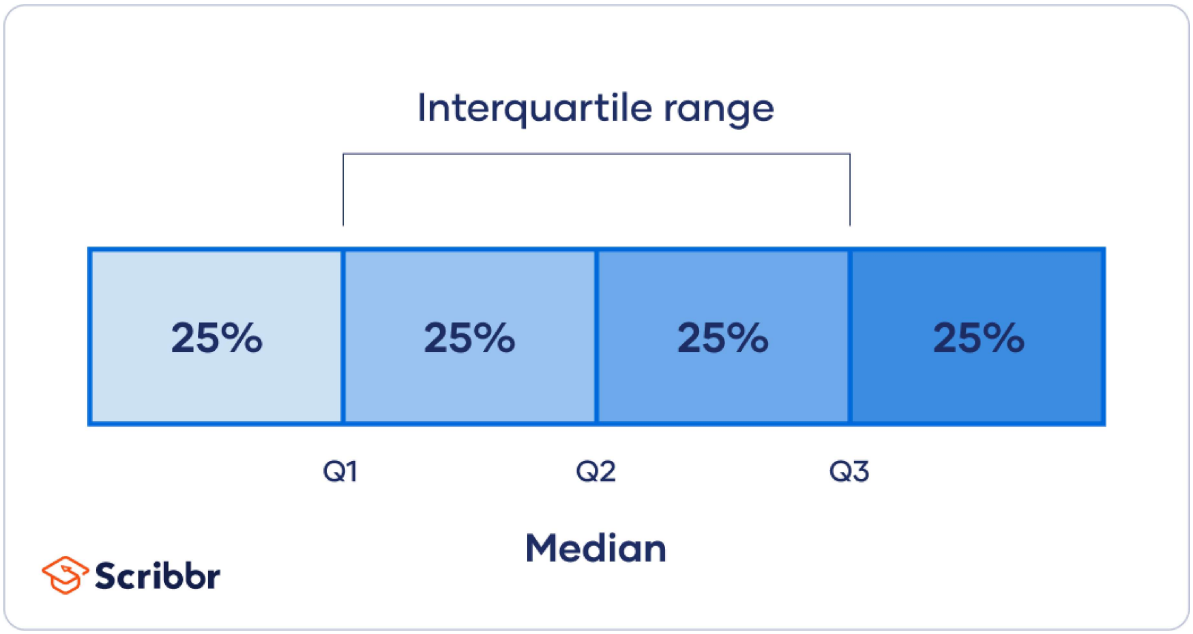


(a) Right-skewed distribution



(b) Left-skewed distribution

In [ ]:
```
IQR -->

Lower Bound(min)

Upper Bond(Max)

Range = max -min

Q1
Q2
Q3


IQR = Q3 -Q1
```



In [ ]:
```
Q1 = 1/4 (n+1)th Terms

Q3 = 3/4 (n+1)th Terms

Q2 = Q3 -Q1
```

In [1]:
```
data = [2,14,7,7,8,8,6]
data.sort()
```

In [2]:
```
data
```

Out[2]:
```
[2, 6, 7, 7, 8, 8, 14]
```

In [ ]:
```
Q1 = 1/4 (7+1)
Q1 = 8/4
Q1 =2 id the index value is 6
Q3 = 3/4(7+1)
Q3=24/4=6 index value is 8
```

In [4]:
```
#IQR =  Q3 -Q1

IQR = 8 - 6
IQR
```

Out[4]:
```
2
```

In [ ]:
```
## Percentiles
```

In [5]:
```
data = [10,2,3,4,9,6,7,8,5,1]
data.sort()
```

In [6]:
```
data
```

Out[6]:
```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

In [ ]:
```
data = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

P =  5/ 10 * 100

P = n/N * 100

where n = assume data point
N = total no of Observation values


p = 50Per
```

In [8]:
```
8/10()
```

Out[8]:
```
0.6
```

In [9]:
```
9/10 *100
```

Out[9]:
```
90.0
```

In [10]:
```
10/10*100
```

Out[10]:
```
100.0
```

In [ ]:
```

```