

Gulf of Mexico Eastern Coast Water Temperatures (°F)

Location	J	F	M	A	M	J	J	A	S	O	N	D
Key West, Florida	69	70	75	78	82	85	87	87	86	82	76	72

69 70 72 75 76 78 | 82 82 85 86 87 87

1. Find the 3 quartiles and interquartile range for the water temperatures from Key West.

$$\text{Median} = \frac{78+82}{2} = 80$$

$$Q3 = \frac{85+86}{2} = 85.5$$

$$Q1 = \frac{72+75}{2} = 73.5$$

$$\text{IQR} = 12$$

Min	69
Q1	73.5
Med	80
Q3	85.5
Max	87

2. Create a box and whisker plot for the water temperatures from Key West.



3. Find the temperatures that are at the 35th and 65th percentiles.

$$(.35)(12) = 4.2$$

5th term

$$(.65)(12) = 7.8$$

8th term

$$35^{th} = 76^{\circ}$$

$$65^{th} = 82^{\circ}$$