

# Box Plots, Range, and IQR

Use box plots to represent data based on real-world context. Then calculate the range and interquartile range (IQR).

1. Mr. Ayala asks his class how many minutes they spent on last night's homework.

A random sample of their answers are listed below.

**20, 30, 15, 20, 40, 20, 30, 45, 15**

*Make a box plot.*

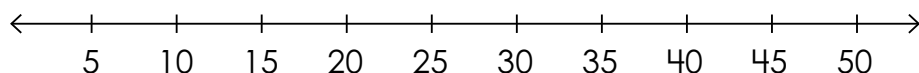
## 5-Number Summary

Min	=	_____
Q1	=	_____
Median	=	_____
Q3	=	_____
Max	=	_____



# Preview

Please log in to download the printable version of this worksheet.



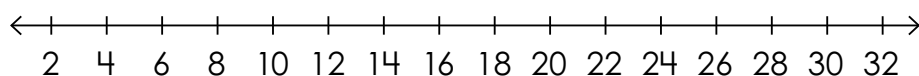
Q3	=	_____
Max	=	_____

Range	=	_____
IQR	=	_____

3. Zainab asks her friends and family to take a handful of jellybeans, then count how many they grabbed. The jellybean counts are listed below.

**25, 9, 18, 26, 29, 31, 25, 20, 22**

*Make a box plot.*



## 5-Number Summary

Min	=	_____
Q1	=	_____
Median	=	_____
Q3	=	_____
Max	=	_____

Range	=	_____
IQR	=	_____

# Box Plots, Range, and IQR

4. Sara picks several movies on her to-watch list and looks up the ages of the protagonists. The ages are listed below.

**18, 26, 16, 14, 8, 16, 18, 19**

*Make a box plot.*

## 5-Number Summary

Min = \_\_\_\_\_

Q1 = \_\_\_\_\_

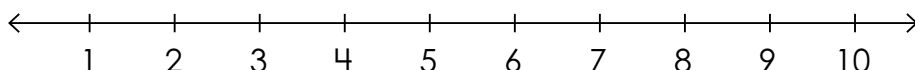
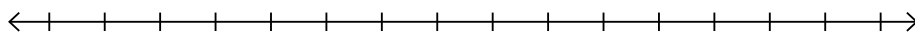
Median = \_\_\_\_\_

Q3 = \_\_\_\_\_

Max = \_\_\_\_\_

Range = \_\_\_\_\_

IQR = \_\_\_\_\_



Max = \_\_\_\_\_

Range = \_\_\_\_\_

IQR = \_\_\_\_\_

6. Ms. Nguyen is tracking the city's daily high temperatures in Celsius, rounded to the nearest degree. A 12-day span is listed below.

**21, 20, 17, 15, 16, 16, 21, 19, 27, 28, 25, 30**

*Make a box plot.*

## 5-Number Summary

Min = \_\_\_\_\_

Q1 = \_\_\_\_\_

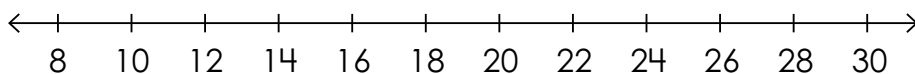
Median = \_\_\_\_\_

Q3 = \_\_\_\_\_

Max = \_\_\_\_\_

Range = \_\_\_\_\_

IQR = \_\_\_\_\_



## Box Plots, Range, and IQR

Use box plots to represent data based on real-world context. Then calculate the range and interquartile range (IQR).

1. Mr. Ayala asks his class how many minutes they spent on last night's homework. A random sample of their answers are listed below.

**20, 30, 15, 20, 40, 20, 30, 45, 15**

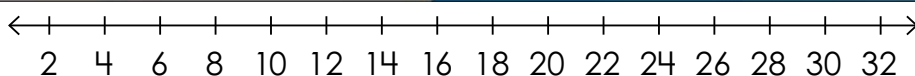
*Make a box plot.*

### 5-Number Summary

Min	=	<b>15</b>
Q1	=	<b>17.5</b>
Median	=	<b>20</b>

# Preview

Please log in to download  
the printable version of this worksheet.



Range	=	<b>22</b>
IQR	=	<b>8.5</b>

## Box Plots, Range, and IQR

4. Sara picks several movies on her to-watch list and looks up the ages of the protagonists. The ages are listed below.

**18, 26, 16, 14, 8, 16, 18, 19**

*Make a box plot.*

### 5-Number Summary

Min	=	<b>8</b>
Q1	=	<b>15</b>
Median	=	<b>17</b>
Q3	=	<b>18.5</b>
Max	=	<b>26</b>



# Preview

Please log in to download  
the printable version of this worksheet.



8 10 12 14 16 18 20 22 24 26 28 30

**IQR = 9.5**