



**THIRD SPACE  
LEARNING**

# Box Plot Worksheet

**Statistics and Probability**

**Grades 6 to 8**

## Questions

Name: .....

Date: .....

1 Draw a box plot for this data set:

Minimum: 8

Lower quartile (Q1): 12

Median (Q2): 19

Upper quartile (Q3): 26

Maximum: 32

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2 Draw a box plot for this data set:

2, 3, 5, 5, 8, 9, 10, 12, 13, 15, 18

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3 This data set shows the ages of people at a concert:

34, 22, 27, 25, 21, 18, 30, 20, 33, 30

Create a box plot for this data.

## Box Plot Worksheet | Grades 6 to 8

4 Draw a box plot for this data set:

Minimum: 5

Lower quartile (Q1): 9

Median (Q2): 13

Upper quartile (Q3): 17

Maximum: 25

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5 Below is a list of values in a data set.

4, 6, 7, 7, 8, 10, 12, 14, 16, 19, 21

Create a box plot for this data.

## Box Plot Worksheet | Grades 6 to 8

6 Draw a box plot for this data set:

Minimum: 4.5

Lower quartile (Q1): 9.5

Median (Q2): 20

Upper quartile (Q3): 22.5

Maximum: 30

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7 Draw a box plot for this data set:

2.3, 2.7, 4.2, 4.6, 7.1, 7.8, 9.4, 10.5, 12.8, 15.4, 17.5, 26.8

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8 Draw a box plot for this data set:

Minimum:  $6\frac{1}{4}$

Lower quartile (Q1): 8

Median (Q2):  $10\frac{3}{4}$

Interquartile range: 4

Maximum:  $13\frac{1}{2}$

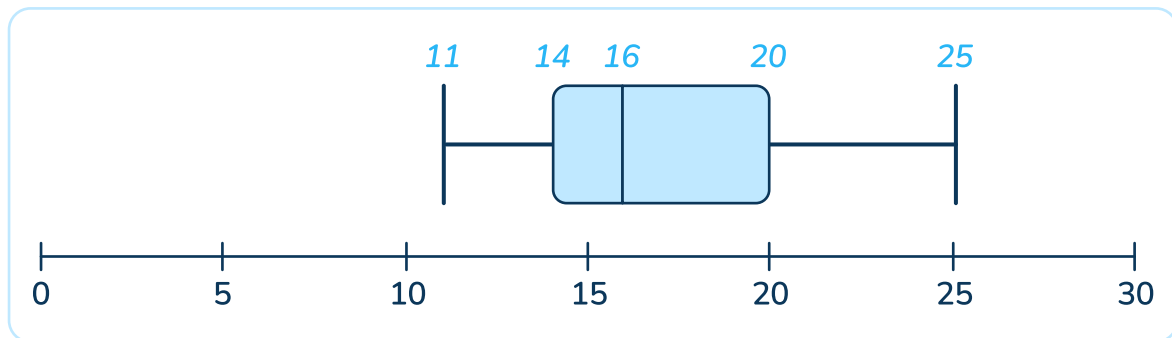
## Box Plot Worksheet | Grades 6 to 8

- 9 Draw a box plot for this data set:  
0.09, 0.27, 0.14, 0.12, 0.16, 0.20, 0.18, 0.24, 0.14, 0.23, 0.11

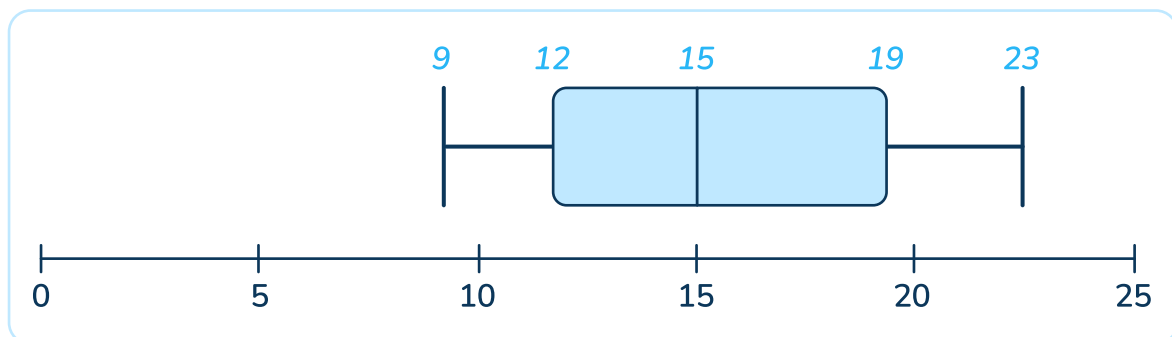
- 
- 10 Draw a box plot for this data set:  
Minimum: 30.3  
Lower quartile (Q1): 30.6  
Median (Q2): 30.85  
Interquartile range: 0.4  
Maximum: 31.2

## Box Plot Worksheet | Grades 6 to 8

- 11** Compare the box plots below for two track teams' running times.  
Team A:



Team B:

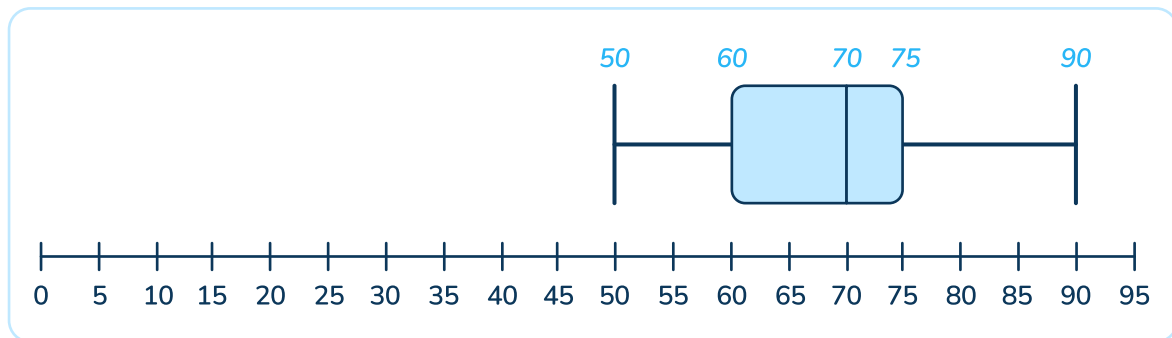


Which team has a smaller interquartile range?

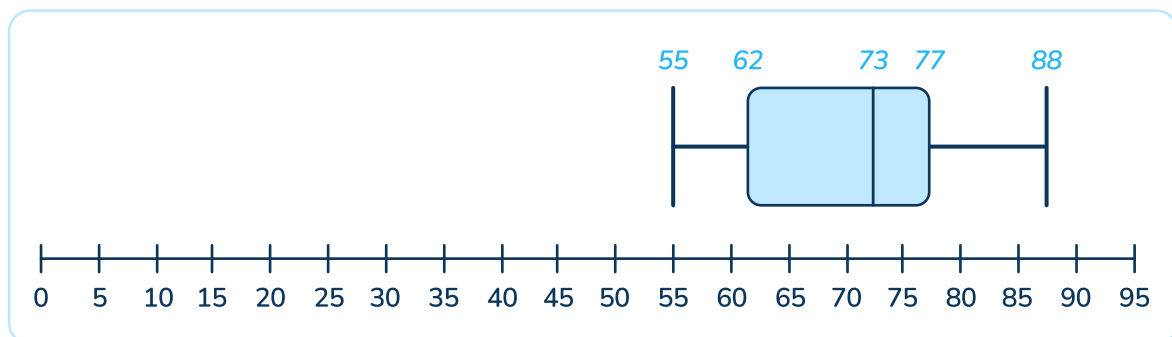
Answer

## Box Plot Worksheet | Grades 6 to 8

- 12 Two groups of students have test scores summarized in these box plots.  
Group X:



Group Y:

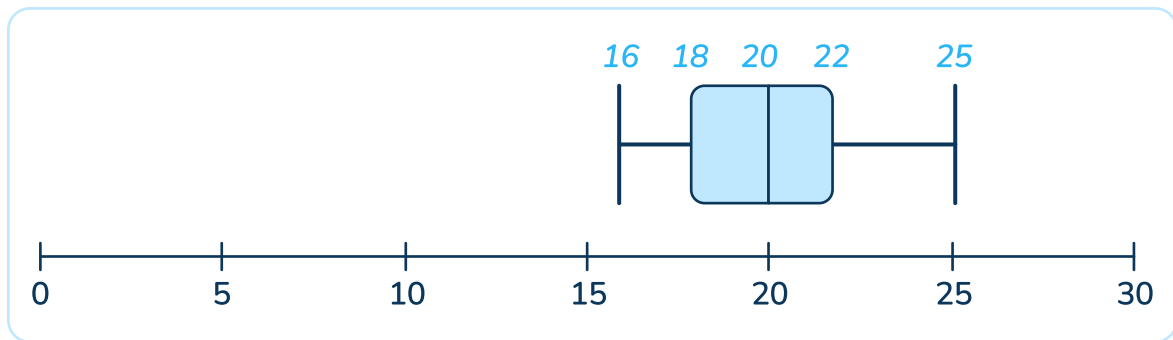


Which group has the higher median score?

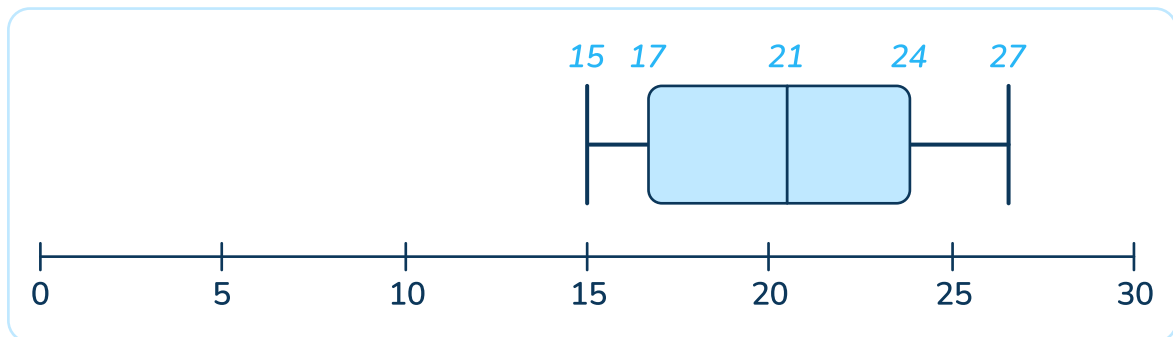
Answer

## Box Plot Worksheet | Grades 6 to 8

- 13 The box plots below show the ages of two different basketball teams.  
Team Red:



Team Blue:



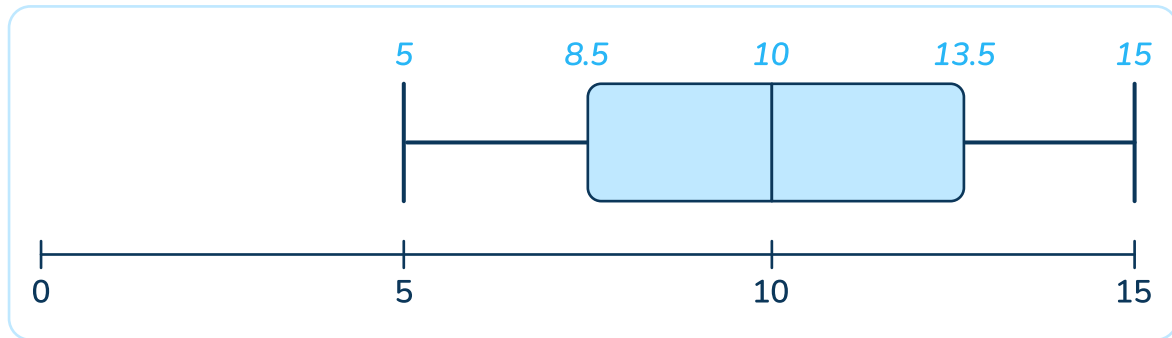
Compare the median ages.

Answer

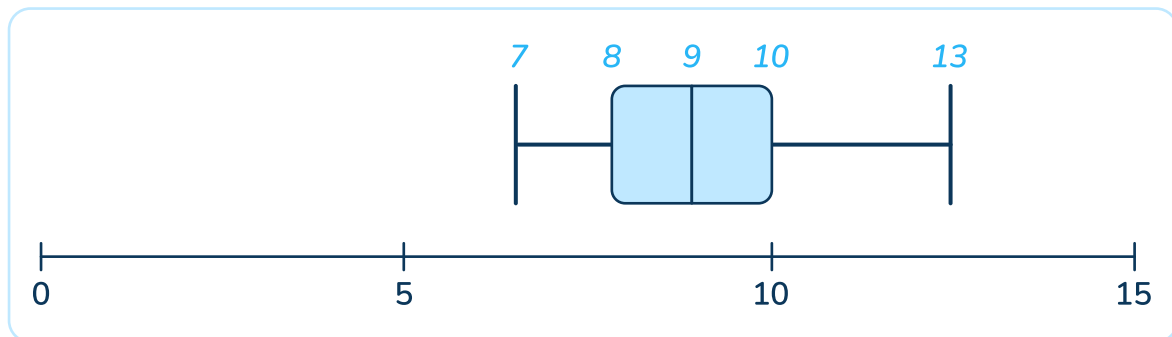


## Box Plot Worksheet | Grades 6 to 8

- 14 Two gyms counted their member's monthly visits.  
Gym A:



Gym B:



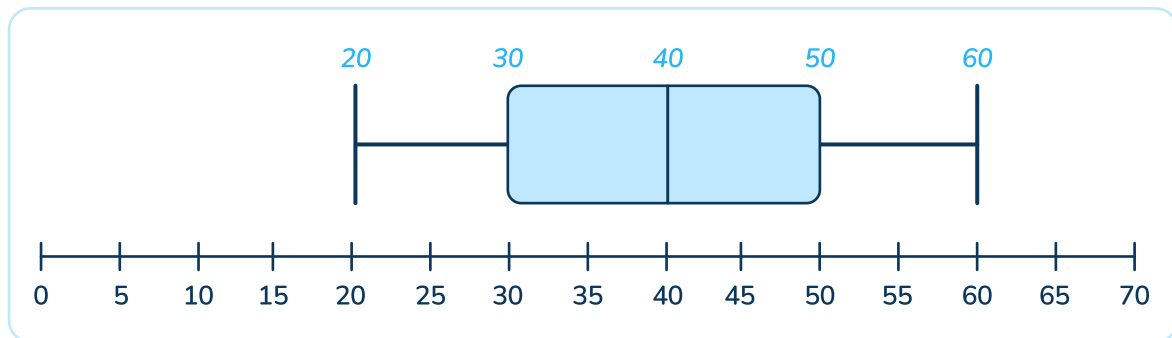
Which gym had less variability in gym visits overall?

Answer

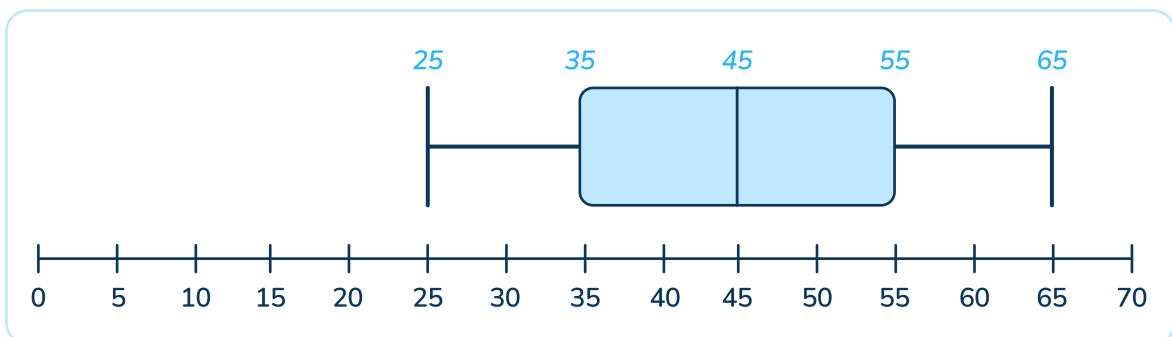
## Box Plot Worksheet | Grades 6 to 8

**15** Look at the box plots below.

Class 1:



Class 2:



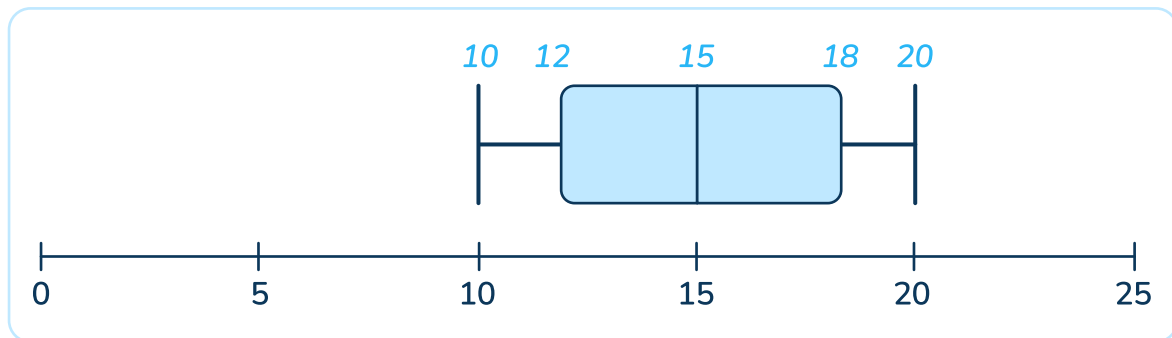
Which class had more variability in their test scores?

*Answer*

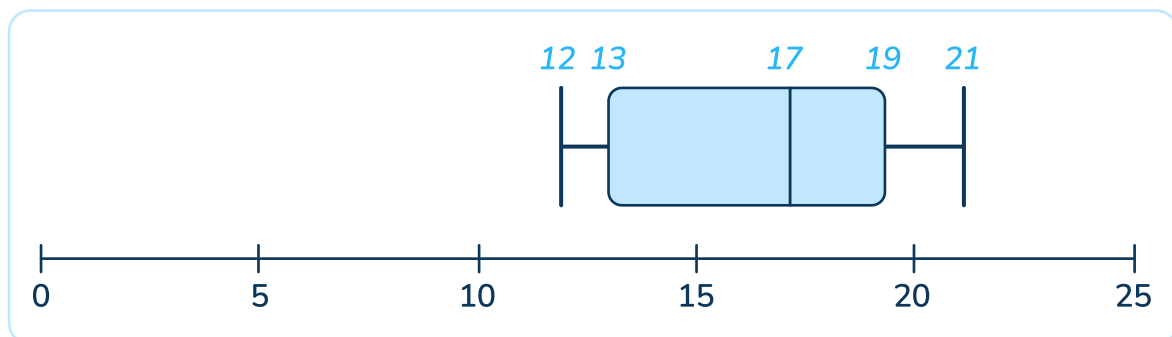
## Box Plot Worksheet | Grades 6 to 8

- 16 These box plots represent weights of two dog breeds.

Breed A:



Breed B:



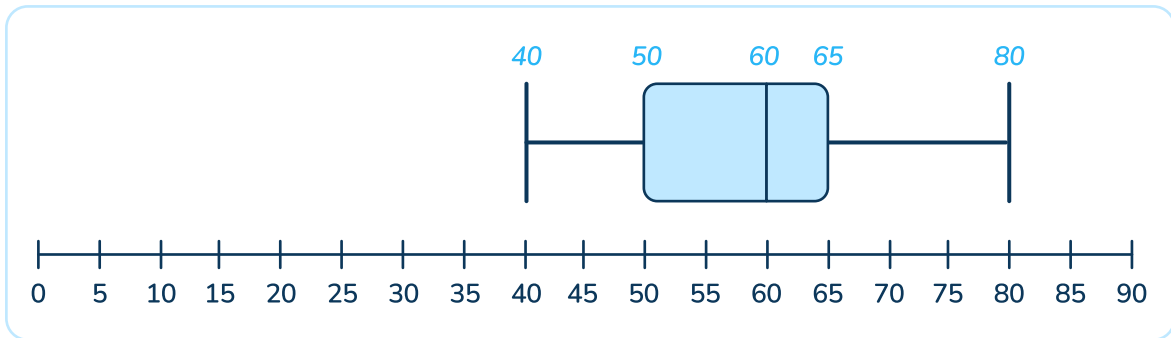
Which breed tends to weigh more?

Answer

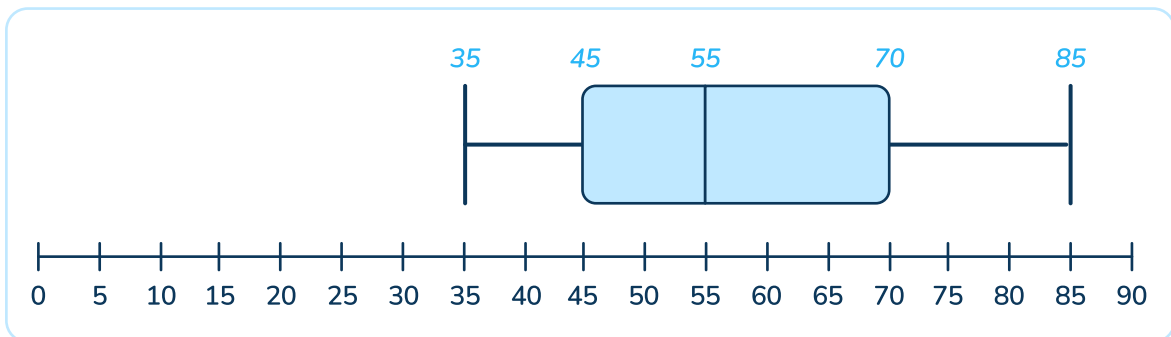
## Box Plot Worksheet | Grades 6 to 8

- 17 Compare the box plots for two classes' project scores.

Class A:



Class B:



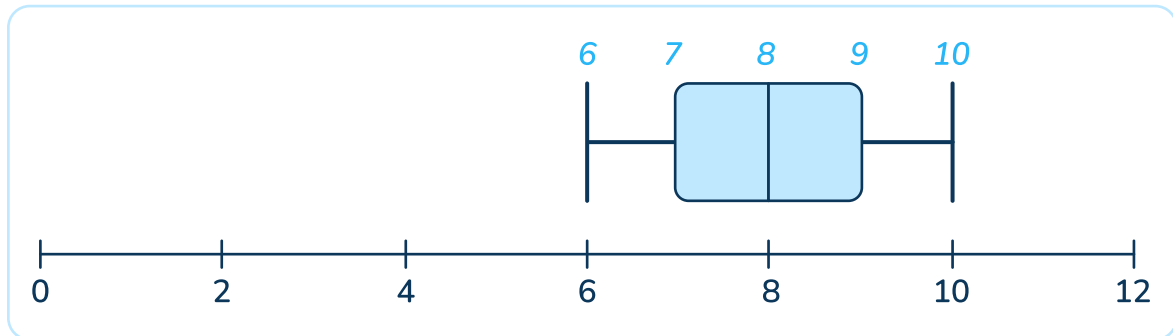
Which class has a larger interquartile range?

Answer

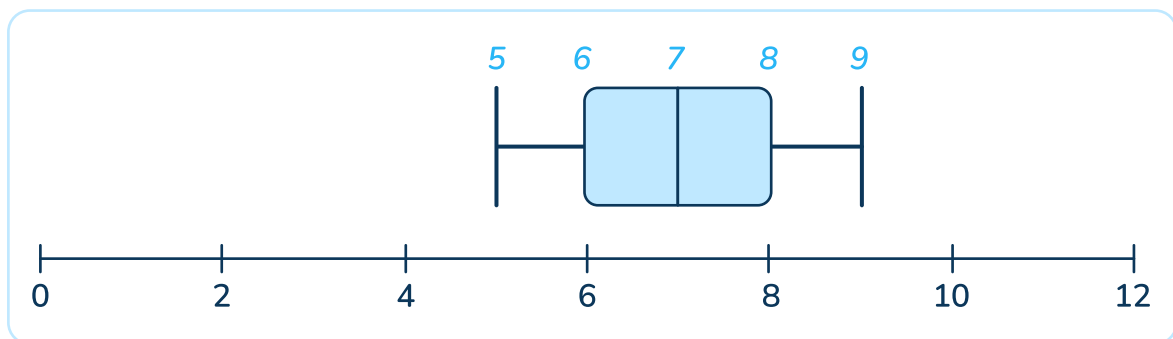
## Box Plot Worksheet | Grades 6 to 8

- 18 The box plots below show hours of sleep for two groups, Group 1 and Group 2.

Group 1:



Group 2:



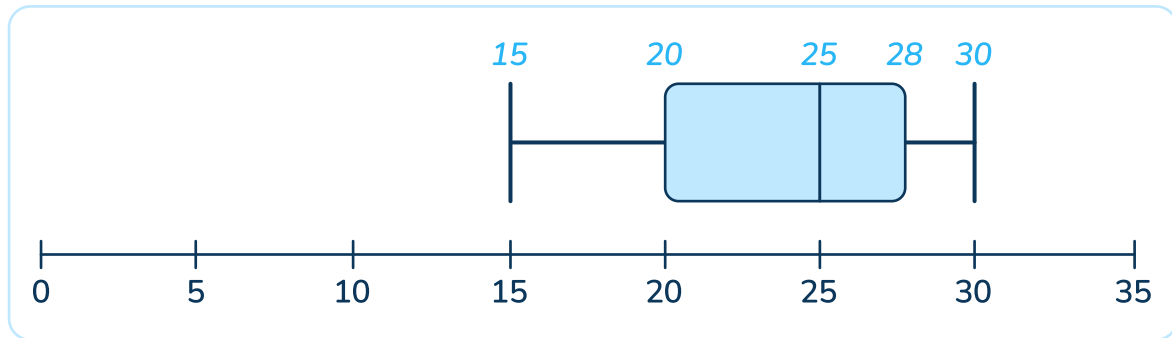
Which group tends to get more sleep?

Answer

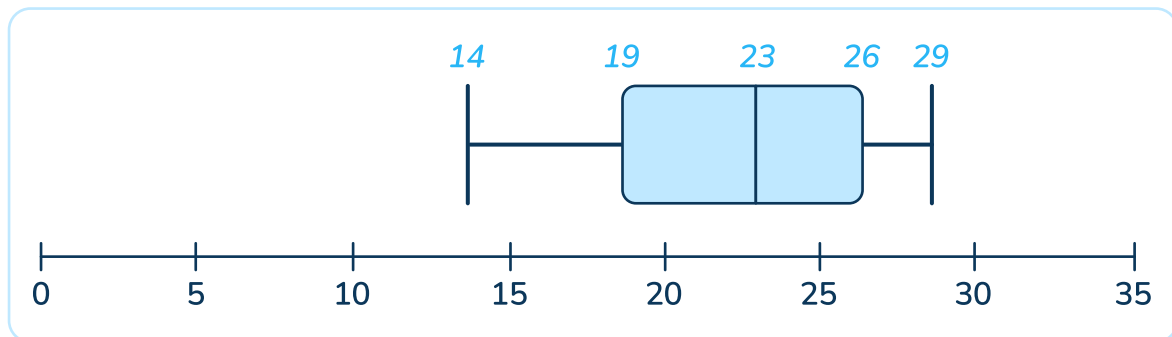
## Box Plot Worksheet | Grades 6 to 8

- 19 Two box plots show heights of plants in two gardens.

Garden A:



Garden B:

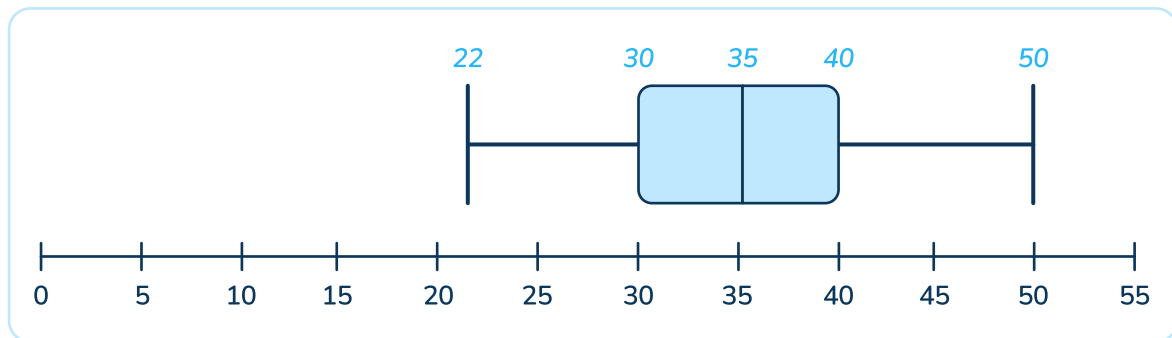


Which garden has a higher median height?

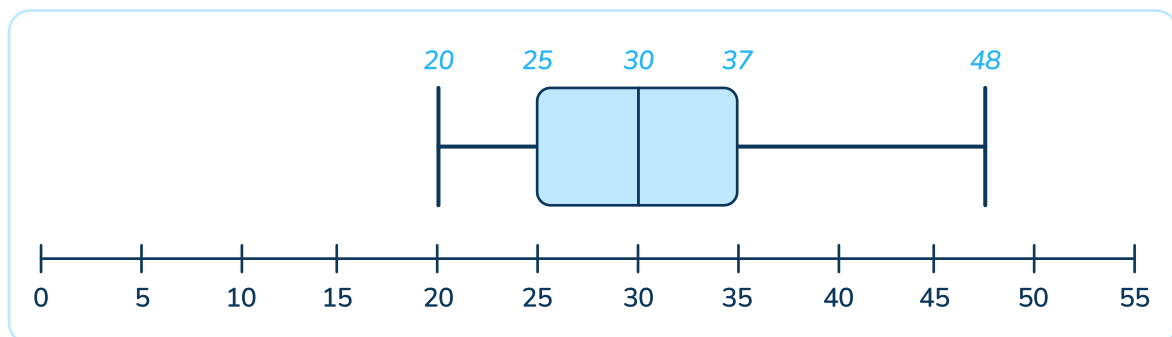
Answer

## Box Plot Worksheet | Grades 6 to 8

- 20 These box plots represent the ages of people in two groups.  
Group A:



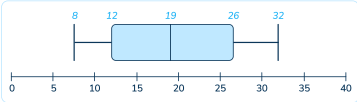
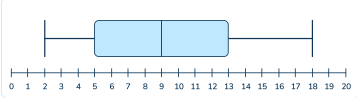
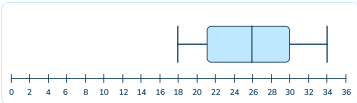
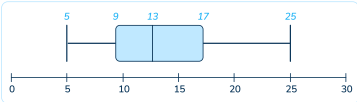
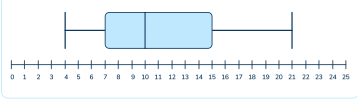
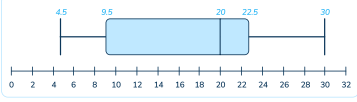
Group B:



Which group has a younger median age?

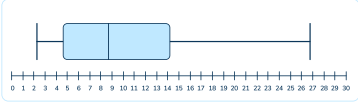
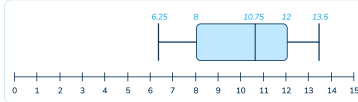
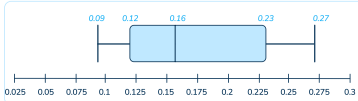
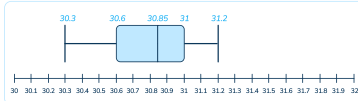
Answer

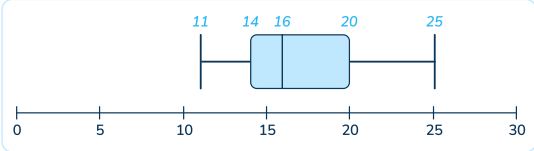
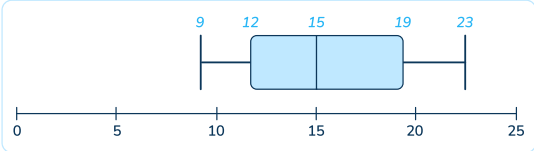
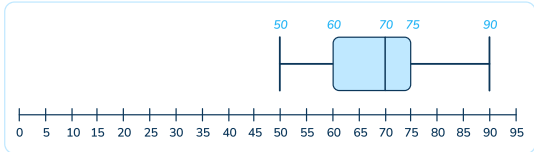
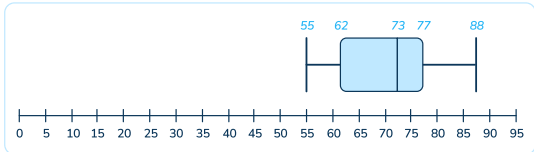
## Answers

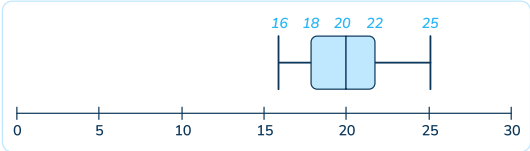
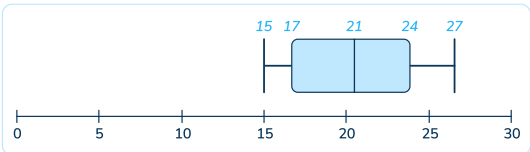
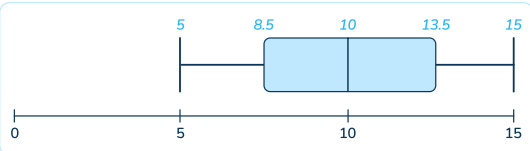
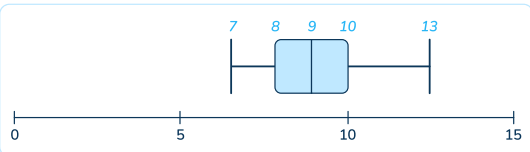
Question number	Question	Answers	Standard
1	Draw a box plot for this data set: Minimum: 8 Lower quartile (Q1): 12 Median (Q2): 19 Upper quartile (Q3): 26 Maximum: 32	<p>Answer</p> 	6.SP.B.4
2	Draw a box plot for this data set: 2, 3, 5, 5, 8, 9, 10, 12, 13, 15, 18		6.SP.B.4
3	This data set shows the ages of people at a concert: 34, 22, 27, 25, 21, 18, 30, 20, 33, 30 Create a box plot for this data.		6.SP.B.4
4	Draw a box plot for this data set: Minimum: 5 Lower quartile (Q1): 9 Median (Q2): 13 Upper quartile (Q3): 17 Maximum: 25		6.SP.B.4
5	Below is a list of values in a data set. 4, 6, 7, 7, 8, 10, 12, 14, 16, 19, 21 Create a box plot for this data.		6.SP.B.4
6	Draw a box plot for this data set: Minimum: 4.5 Lower quartile (Q1): 9.5 Median (Q2): 20 Upper quartile (Q3): 22.5 Maximum: 30		6.SP.B.4



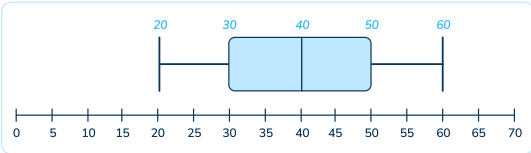
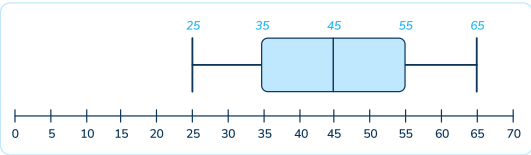
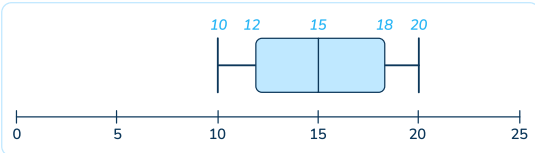
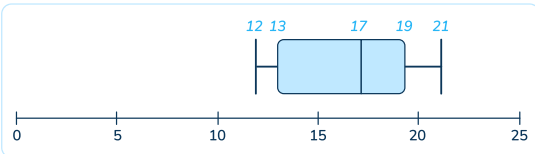
## Box Plot Worksheet | Grades 6 to 8 | Answers

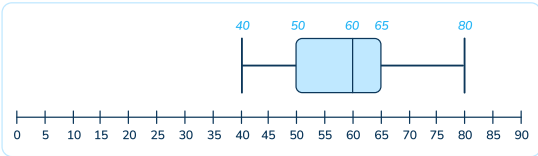
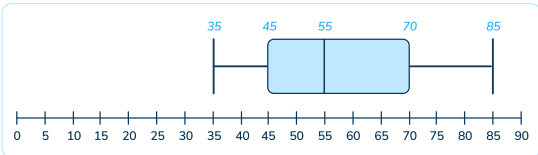
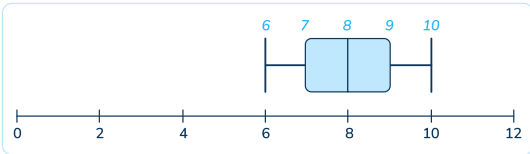
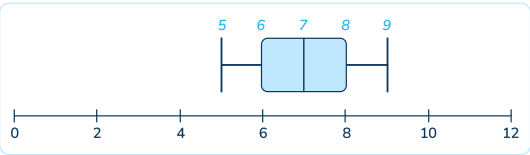
Question number	Question	Answers	Standard
7	Draw a box plot for this data set: Minimum: 2.3 Lower quartile (Q1): 4.4 Median (Q2): 8.6 Upper quartile (Q3): 14.1 Maximum: 26.8	 A box plot on a number line from 0 to 30. The minimum is at 2.3, Q1 at 4.4, Median at 8.6, Q3 at 14.1, and Maximum at 26.8.	6.SP.B.4
8	Draw a box plot for this data set: Minimum: $6\frac{1}{4}$ Lower quartile (Q1): 8 Median (Q2): $10\frac{3}{4}$ Interquartile range: 4 Maximum: $13\frac{1}{2}$	 A box plot on a number line from 0 to 15. The minimum is at 6.25, Q1 at 8, Median at 10.75, Q3 at 12, and Maximum at 13.5.	6.SP.B.4
9	Draw a box plot for this data set: 0.09, 0.27, 0.14, 0.12, 0.16, 0.20, 0.18, 0.24, 0.14, 0.23, 0.11	 A box plot on a number line from 0.025 to 0.3. The minimum is at 0.09, Q1 at 0.12, Median at 0.16, Q3 at 0.23, and Maximum at 0.27.	6.SP.B.4
10	Draw a box plot for this data set: Minimum: 30.3 Lower quartile (Q1): 30.6 Median (Q2): 30.85 Interquartile range: 0.4 Maximum: 31.2	 A box plot on a number line from 30 to 32. The minimum is at 30.3, Q1 at 30.6, Median at 30.85, Q3 at 31, and Maximum at 31.2.	6.SP.B.4

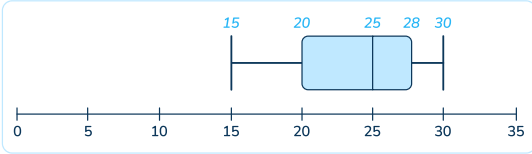
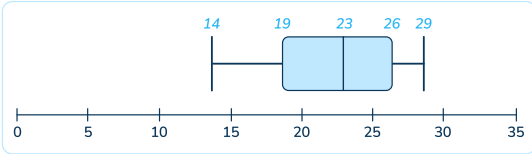
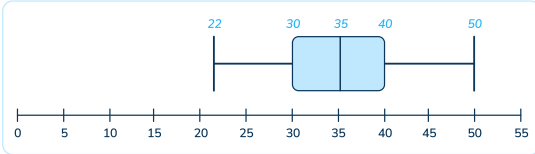
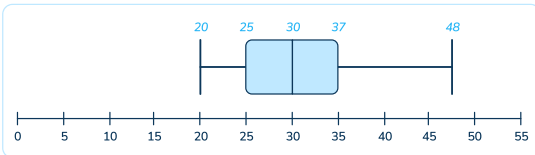
Question number	Question	Answers	Standard
11	<p>Compare the box plots below for two track teams' running times.</p> <p>Team A:</p>  <p>Team B:</p>  <p>Which team has a smaller interquartile range?</p>	Team A has a smaller interquartile range.	7.SP.B.3
12	<p>Two groups of students have test scores summarized in these box plots.</p> <p>Group X:</p>  <p>Group Y:</p>  <p>Which group has the higher median score?</p>	Group Y	7.SP.B.3

Question number	Question	Answers	Standard
13	<p>The box plots below show the ages of two different basketball teams.</p> <p>Team Red:</p>  <p>Team Blue:</p>  <p>Compare the median ages.</p>	Team Blue has a higher median.	7.SP.B.3
14	<p>Two gyms counted their member's monthly visits.</p> <p>Gym A:</p>  <p>Gym B:</p>  <p>Which gym had less variability in gym visits overall?</p>	Gym B	7.SP.B.3

## Box Plot Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
15	<p>Look at the box plots below.</p> <p>Class 1:</p>  <p>Class 2:</p>  <p>Which class had more variability in their test scores?</p>	Both have the same variability.	7.SP.B.3
16	<p>These box plots represent weights of two dog breeds.</p> <p>Breed A:</p>  <p>Breed B:</p>  <p>Which breed tends to weigh more?</p>	Breed B	7.SP.B.3

Question number	Question	Answers	Standard
17	<p>Compare the box plots for two classes' project scores.</p> <p>Class A:</p>  <p>Class B:</p>  <p>Which class has a larger interquartile range?</p>	Class B	7.SP.B.3
18	<p>The box plots below show hours of sleep for two groups, Group 1 and Group 2.</p> <p>Group 1:</p>  <p>Group 2:</p>  <p>Which group tends to get more sleep?</p>	Group 1	7.SP.B.3

Question number	Question	Answers	Standard
19	<p>Two box plots show heights of plants in two gardens.</p> <p>Garden A:</p>  <p>Garden B:</p>  <p>Which garden has a higher median height?</p>	Garden A	7.SP.B.3
20	<p>These box plots represent the ages of people in two groups.</p> <p>Group A:</p>  <p>Group B:</p>  <p>Which group has a younger median age?</p>	Group B	7.SP.B.3

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