

# Box Plots

Week 11

Lesson Time : 15 - 20 Minutes

Course : Higher

Grade : 6

Back to Basics

Core

Let's Do It!

## GCSE Revision Video 53

- **Prior Checklist:** A pack of A5/A6 revision cards.

A pen.

- **Our Video Structure:**

**Back to Basics:** Quick re-cap.

**Core:** *Create* your own revision cards with exam style questions.

**Let's Do It!:** *Apply* your revision cards to another set of exam style questions.

**Instructions:** **Print out** this worksheet and watch the revision video simultaneously.

**Pause and Play** the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.


**Create** your OWN revision cards when prompted on the worksheet( Back to Basic and Core sections).

**Apply** your OWN revision cards ( Let's Do It! section).

**Self Assess** yourself ( Out of 10) on your revision planner after you have completed the revision video.

**WATCH** this revision video and **MANY** others on our **FULL** courses at [www.mathsmemory.co.uk](http://www.mathsmemory.co.uk)

Let's get started and create our Master revision card with this suggested template.



## Maths Memory


**Learn:**


- Plot a Box Plot
- Compare TWO distributions
- Interpret percentages


**Topic:** Box Plots

**Date/week:** \_\_\_\_\_

GRADE  
6

Step 3 

Step 2 

Step 1 

**Example(s):**

### Back to Basics- Starter questions to warm you up



## Back to Basics

**Topic: Box Plots**

### Question 1

The test results of a class were as follows(%):

Lowest mark: 32

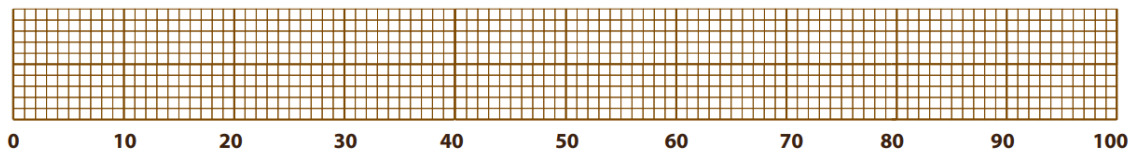
Highest mark: 94

Median mark: 57

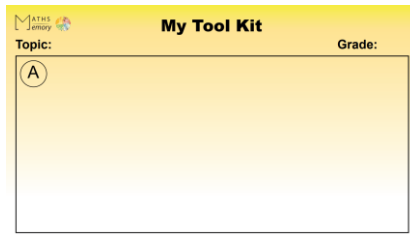
Lowest quartile mark: 41

Interquartile range: 36

Represent this data on a box plot



Let's get our revision card and create Section A. Look at video for guidance.



**Core-** Create your revision cards with these exam style questions

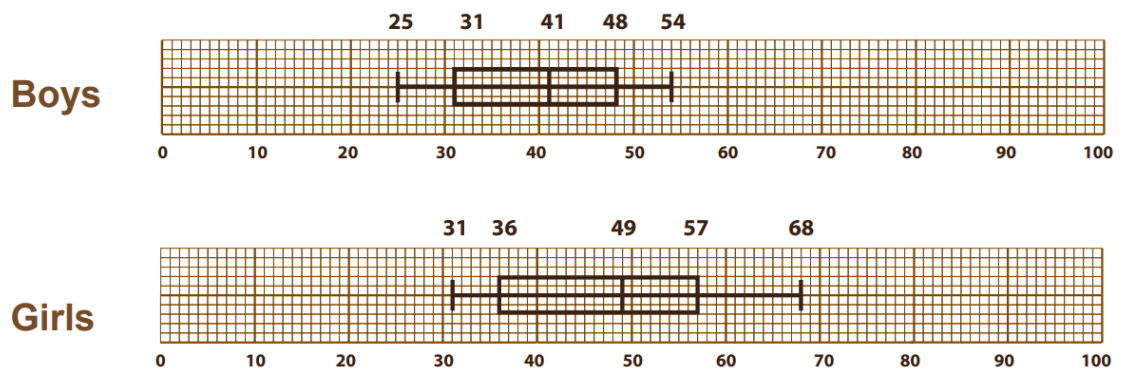


**Core 1**

**Topic: Box Plots**

**Question 1**

The box plots show two identical 200m races run by both boys and girls in year 9. (seconds)



a) Compare both sets of distributions on the time taken by the boys and the girls.

Grade  
**6** (2 Marks)

Let's get our revision card and create Section B. Look at video for guidance.

My Tool Kit

Topic: Grade:

B

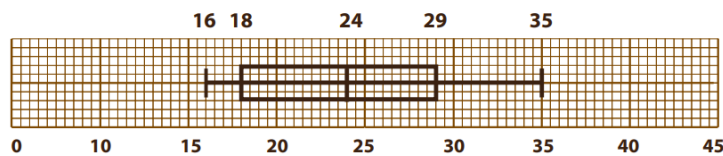


Core 2

Topic: Box Plots

### Question 2

A class of 32 pupils completed a Maths puzzle.  
The box plot below shows information about their completion times, in minutes.



a) What percentage of pupils spent less than 24 minutes to complete the puzzle?

b) How many pupils took more than 29 minutes to complete the puzzle?

Grade

6 (2 Marks)

Let's get our revision card and create Section C. Look at video for guidance.

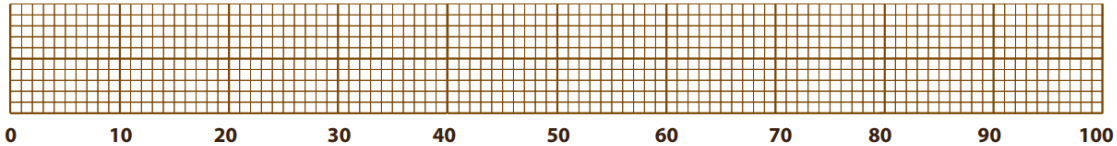


**Question 3**

Ruby planted 11 tomato seeds. After a period of time, the plants grew to the following heights in cm:

19, 32, 12, 27, 35, 25, 20, 42, 17, 38, 26

a) Draw a box plot for this information.



b) What percentage of plants grew 35 cm or more?

c) What percentage of plants grew between 19cm and 42 cm?

Grade

6 (4 Marks)

# Let's Do It!- Apply your revision cards to another set of exam style questions

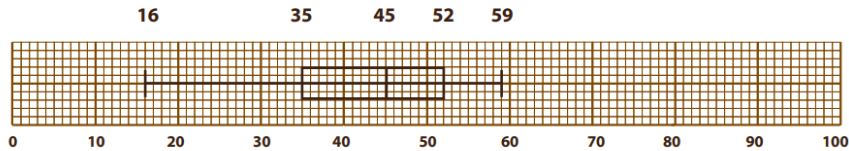


## Let's Do It!

## Topic: Box Plots

### Question 1

The total number of goals scored from ten male hockey teams in a season can be represented on a box plot as shown.



The total number of goals scored from ten female hockey teams in a season can be represented with these figures:

Low = 12, Lower Quartile= 29, Median = 42, IQR = 14, High= 61

a) Compare and comment on the two sets of distributions.

Grade

6 (2 Marks)

**Question 2**

The marks in a Maths GCSE exam were as follows (out of 80) :

45, 62, 17, 25, 63, 52, 86, 70, 36, 49, 38, 60, 42, 31, 72

a) What is the interquartile range?

b) What percentage of pupils scored 36 marks or less?

c) What percentage of pupils scored 70 marks or above?

**Grade****6** (4 Marks)

**Congratulations. You have completed this topic.**

**Now go back to your revision planner and rate yourself out of 10.**