

Examples

Workout



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Question 1: Draw a box plot for each of the following.

(a)

Lowest Value	2
Lower Quartile	7
Median	9
Upper Quartile	10
Highest Value	13

(b)

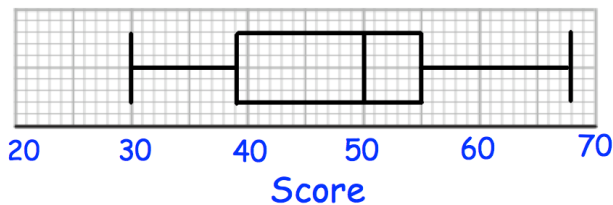
Lowest Value	23
Lower Quartile	30
Median	32
Upper Quartile	34
Highest Value	45

(c)

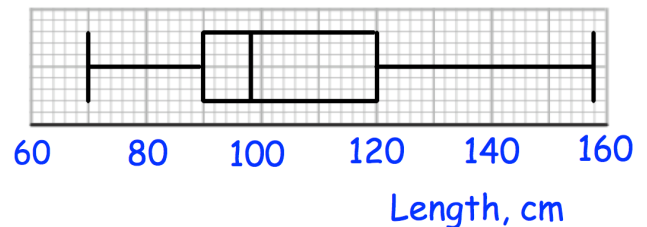
Lowest Value	60
Lower Quartile	85
Median	100
Upper Quartile	110
Highest Value	170

Question 2: For each box plot below, find the (i) median, (ii) interquartile range, (iii) range

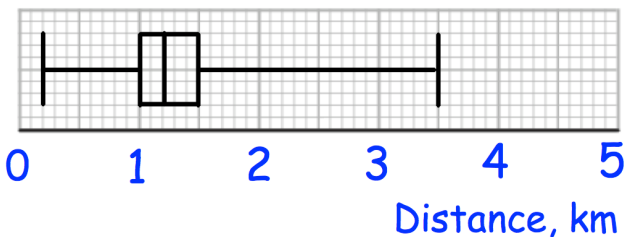
(a)



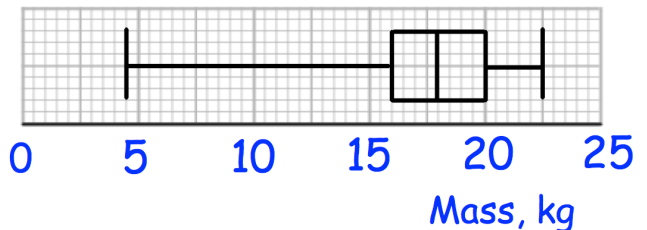
(b)



(c)



(d)



Question 3: Draw a box plot for each of the following.

(a)

Lower Quartile	3.4
Median	3.9
Upper Quartile	4.1
Highest Value	5.4
Range	3.7

(b)

Lowest Value	6
Median	14
Upper Quartile	16
Range	20
Interquartile Range	5

(c)

Lower Quartile	115
Median	135
Highest Value	160
Range	70
Interquartile Range	25

Box Plots

Videos 149 and 150 on www.corbettmaths.com

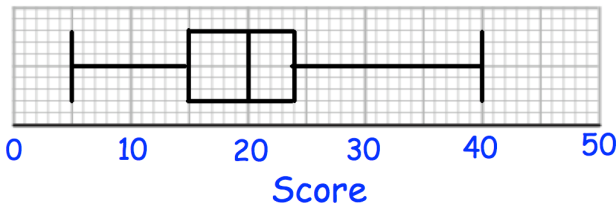
Question 4: Draw a box plot for each set of data

- (a) 8, 10, 13, 14, 14, 15, 15, 16, 18, 19, 21, 22, 24, 29, 35
- (b) 40, 80, 90, 90, 100, 120, 130
- (c) 5.9, 7.3, 7.8, 8, 8.4, 8.7, 8.9, 8.9, 8.9, 9, 9, 9.1, 9.1, 9.3, 9.5, 9.6, 9.9, 10.5, 10.9

Question 5: Compare the distributions of each pair of box plots below.

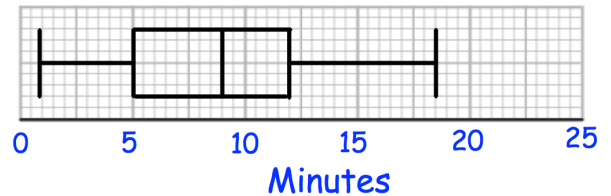
(a)

7A results

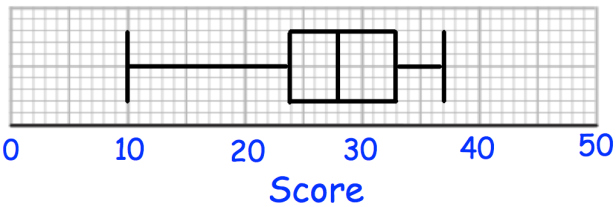


(b)

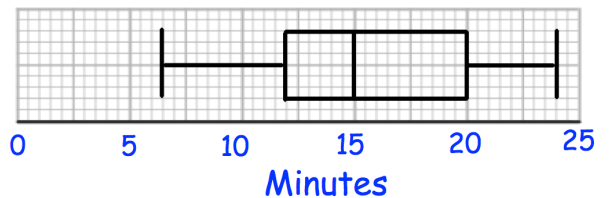
Time taken to complete puzzle - Children



7B results

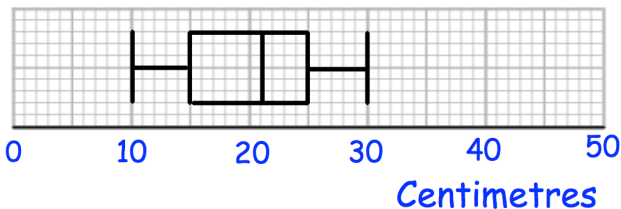


Time taken to complete puzzle - Adults



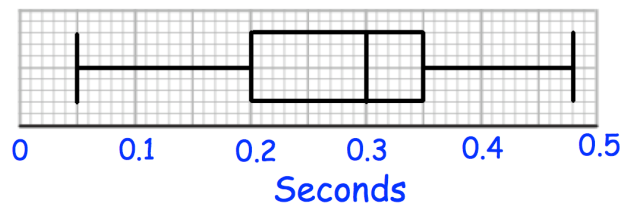
(c)

Length of red squirrels

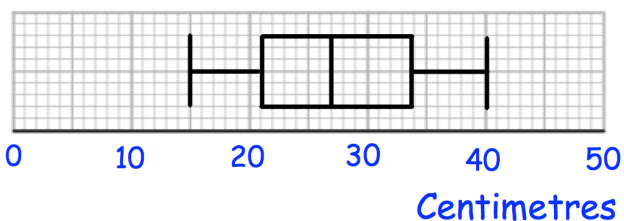


(d)

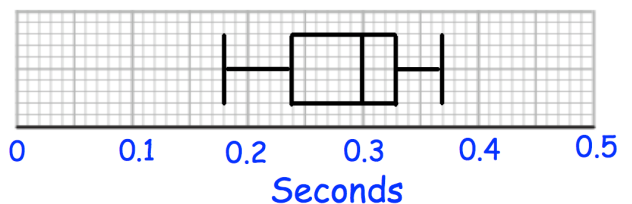
Reaction Times - Group A



Length of grey squirrels



Reaction Times - Group B



Apply

Question 1: Gareth and Wayne are two footballers.

The table shows information about the number of passes they make in each game over a season.

- (a) Find the missing values from the table
- (b) Using the same scale, draw box plots to represent the data.
- (c) Compare and contrast the two box plots

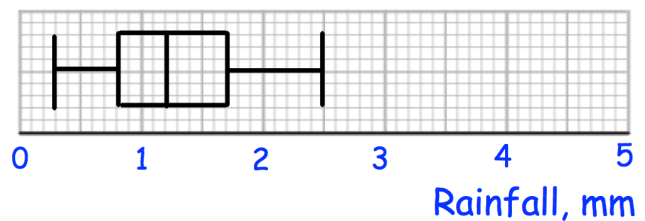
	Gareth	Wayne
Lowest Value	5	2
Lower Quartile	12	11
Median	16	19
Upper Quartile	24	
Highest Value		57
Interquartile Range		25
Range	38	

Question 2: Rosie is going on holiday to an island.

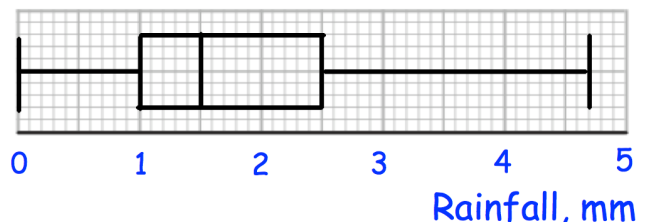
The box plots below show information about the daily average rainfall in May and June on the island.

- (a) What was the median rainfall in May?
- (b) What was the highest rainfall in June?
- (c) What percentage of days in June had over 2.5mm of rain?
- (d) What percentage of days in May had over 2.5mm of rain?
- (e) What percentage of days in May had under 1.2mm of rain?
- (f) When would you recommend Rosie visits the island?
Explain your answer.

Average daily rainfall: May



Average daily rainfall: June



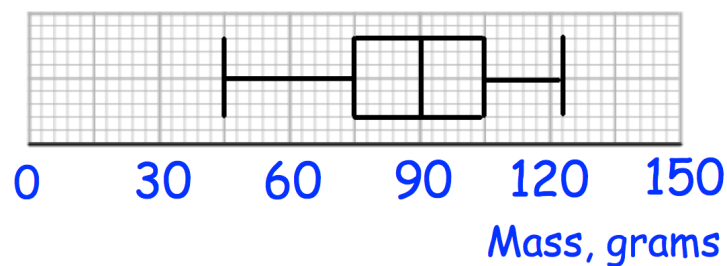
Box Plots

Videos 149 and 150 on www.corbettmaths.com

- Question 3: Mr Jones is an estate agent on the Isle of Man. He has created this table to show information about the prices of houses he has sold.
- Explain how you know he has made a mistake.

Median	£375,000
Range	£235,000
Interquartile Range	£590,000

- Question 4: The box plot show information about the masses of apples in a crate.



Jack is going to select apples at random from the crate. After selecting each apple, he records its mass and returns it to the crate before picking another. Work out the probability that:

- Jack picks two apples, both under 75g
- Jack picks two apples, both over 90g
- Jack picks two apples, both over 105g
- Jack picks two apples, one under 90g and one over 105g
- Jack picks three apples, all over 105g
- Jack picks three apples, two over 105g and one under 75g.

Answers



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