

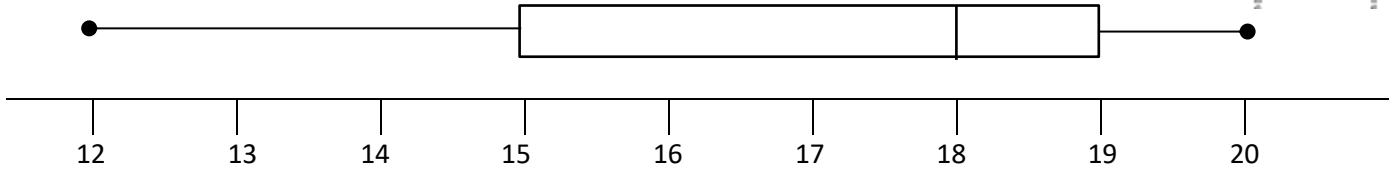
Name

Date



# INTERPRETING BOX PLOTS SHEET 1

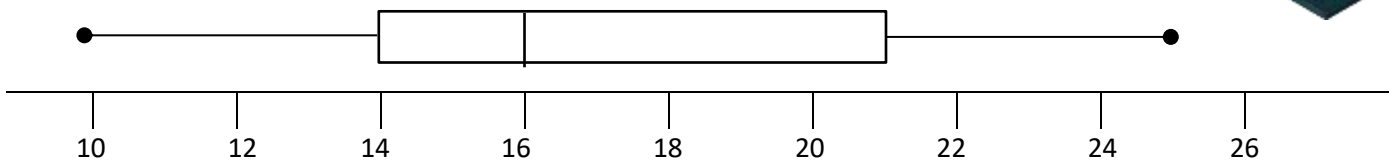
1) This box plot shows the marks of a spelling test from a class of students.



For each of the following statements state whether they are **true**, **false** or **unknown**.

a)	The maximum value of this box plot is 19.	
b)	The median score is 18 marks.	
c)	The lowest score was 12 marks.	
d)	The range of results is 8 marks.	
e)	The interquartile range is 5 marks.	
f)	The mean value is 17 marks.	
g)	About 25% of the marks are below 15.	

2) This box plot shows the number of customers visiting a store during each hour of the day.



For each of the following statements state whether they are **true**, **false** or **unknown**.

a)	The median number of customers per hour is 16.	
b)	The most number of customers per hour was 21.	
c)	The range of customers per hour is 15.	
d)	The interquartile range is 7 customers per hour.	
e)	The busiest time for the store was in the evening.	
f)	The data is skewed left.	
g)	About 75% of the time, there are more than 14 customers per hour.	

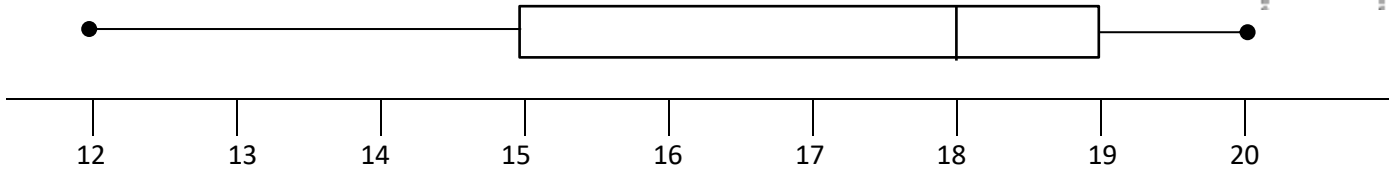
Name

Date



# INTERPRETING BOX PLOTS SHEET 1 ANSWERS

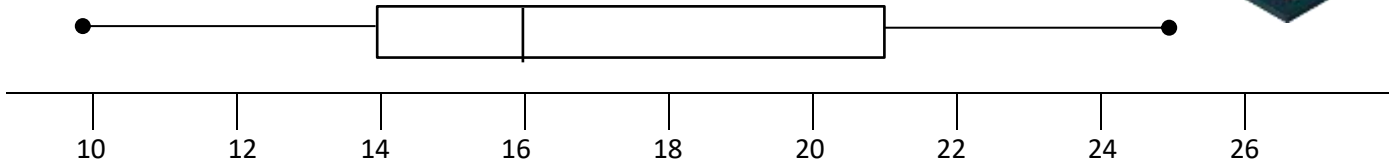
1) This box plot shows the marks of a spelling test from a class of students.



For each of the following statements state whether they are **true**, **false** or **unknown**.

a)	The maximum value of this box plot is 19.	<u>FALSE (MAX IS 20)</u>
b)	The median score is 18 marks.	<u>TRUE</u>
c)	The lowest score was 12 marks.	<u>TRUE</u>
d)	The range of results is 8 marks.	<u>TRUE (20 - 12 = 8)</u>
e)	The interquartile range is 5 marks.	<u>FALSE (19 - 15 = 4)</u>
f)	The mean value is 17 marks.	<u>UNKNOWN</u>
g)	About 25% of the marks are below 15.	<u>TRUE</u>

2) This box plot shows the number of customers visiting a store during each hour of the day.



For each of the following statements state whether they are **true**, **false** or **unknown**.

a)	The median number of customers per hour is 16.	<u>TRUE</u>
b)	The most number of customers per hour was 21.	<u>FALSE (MAX IS 25)</u>
c)	The range of customers per hour is 15.	<u>TRUE (25 - 10 = 15)</u>
d)	The interquartile range is 7 customers per hour.	<u>TRUE (21 - 14 = 7)</u>
e)	The busiest time for the store was in the evening.	<u>UNKNOWN</u>
f)	The data is skewed left.	<u>FALSE</u> <u>(SKEWED RIGHT)</u>
g)	About 75% of the time, there more than 14 customers per hour.	<u>TRUE</u>