

White Rose Maths Extension Question 1

	100 m sprint (s)	Shot put (m)	50 m Sack race (s)	Javelin (m)
Amir	15.5	6.5	18.9	11.2
Dora	16.2	7.5	20.1	13.3
Teddy	15.8	6.9	19.3	13.9
Rosie	15.6	7.2	18.7	14.1
Ron	17.9	6.3	18.7	13.3

Ron thinks that he won the 100 m sprint because he has the biggest number.

Do you agree?

Explain your answer.

Question 2

This table shows the 10 largest stadiums in Europe.

Stadium	City	Country	Capacity
Camp Nou	Barcelona	Spain	99,365
Wembley	London	England	90,000
Signal Iduna Park	Dortmund	Germany	81,359
Santiago Bernabeu	Madrid	Spain	81,044
San Siro	Milan	Italy	80,018
Stade de France	Paris	France	80,000
Luzhniki Stadium	Moscow	Russia	78,300
Ataturk Olimpiyat Stadium	Istanbul	Turkey	76,092
Old Trafford	Manchester	England	75,811
Allianz Arena	Munich	Germany	75,000

## True or False?

- The fourth largest stadium is the San Siro.
- There are 6 stadiums with a capacity of more than 80,000
- Three of the largest stadiums are in England.

3

This table shows the number of points awarded for throwing the javelin in an athletics competition:

Javelin	
Over 14m	10 points
Over 15m	11 points
Over 16m	12 points
Over 17m	13 points
Over 18m	14 points



Decide if each statement is true or false. Explain your reasoning.

- I threw the javelin 1550cm and received 12 points.
- My throw was 19m so I received 15 points.
- I threw the javelin 17.425m and received 13.5 points.
- I estimate that my throw is between 14.8m and 15.2m so I should receive either 10 or 11 points.



4

This table shows the lengths of some of the longest rivers in the world:

Amazon	6400km
Congo	4700km
Mekong	4350km
Nile	6650km
Yangtze	6300km
Yellow River	5464km



- Which rivers are between 5500km and 6500km in length?
- What is the total combined length of the Yellow River, Nile and Yangtze?
- What is the difference between the longest and the shortest rivers?
- Name two rivers which have a combined length of 11 000km.
- Which two rivers have a difference of 1950km?

5

Some athletes took part in two different running races and their times were recorded in seconds in the table below:

Names	100m Sprint (In Seconds)	600m (In Seconds)	Total Time (In Seconds)
Bailey	17.93	109.03	126.96
Julia	14.46	111.72	
James		115.94	132.67
Ola	15.09		122.51
George		121.56	135.55

- Fill in the missing times for each athlete.
  - Rounded to the nearest whole second, what is the combined 100m sprint time for the three fastest athletes?
  - Which athletes recorded a time of between 1.5 and 2 minutes in the 600m race?
  - Which two athletes have a combined 600m race time of between 227 and 228 seconds?
  - Which three athletes have a combined total race time of 385 seconds when rounded to the nearest second?
- 2) Harry also took part in both races. His total time was 135.55 seconds. Harry was faster than Bailey in the 100m sprint and George in the 600m, but he was slower than Julia in the 600m.

Give five possible times that Harry could have achieved in both the 100m and 600m races.

- 3) Now create your own questions about the information shown in the table.

