



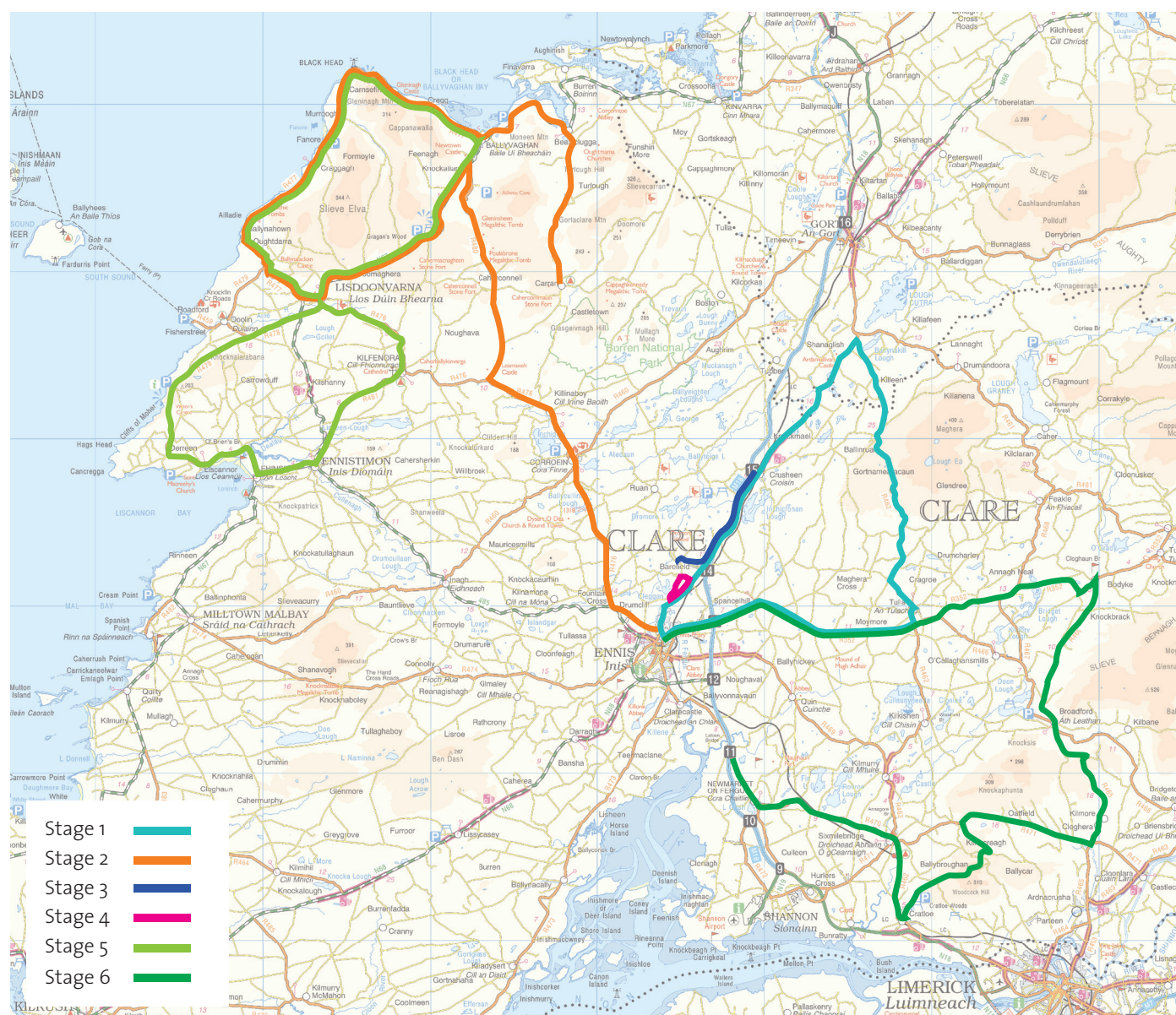
An Post Rás na mBan

MATHEMATICS

An Post Rás na mBan is Ireland's only women's international stage race. This leading multi-day event takes place in September each year. Local club and national level women riders from Ireland compete with riders from around the world for the title. An Post is sponsor of this event since 2011.

The table below shows information from the 2013 race:

Stage	Distance (km)	Winning Stage Time	Number of Starters	Number of Finishers
1	55.6	1hr 25m	103	101
2	95.6	2hr 43m	101	97
3	13.4	18m	97	97
4	41	57m	95	95
5	88.4	2h 30m	95	92
6	86.6	2h 36m	91	84





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Quiz

- What was the total distance of the race? Give your answer rounded to the nearest kilometre.
- What was the total length of time for the race?
- What was the average speed for each stage? (km/h) Give your answer rounded to one decimal place.
- What was the average speed for the whole race? (km/h) Give your answer rounded to one decimal place.
- Stage 4 was a circuit with 4 laps.
 - What was the distance of each lap?
 - What was the average time of each lap? Give your answer to the nearest minute.
 - What was the average speed of each lap? (km/h) Give your answer rounded to one decimal place.
- If there was a 7th stage with a distance of 67.3km and an average speed of 36.4km/h. What would the winning time for the stage? Give your answer in hours and minutes.
- If this 7th stage took place, what would be the new
 - Total distance
 - Total length of time
- What percentage of competitors finished the race? Give your answer rounded to two decimal places.

1. 380.6km 2. 10hr 29m 3. Stage 1 39.2km/h to 39.7km/h Stage 2 = 35.2km/h to 35.4km/h Stage 3 44.7km/h Stage 4 43.2km/h Stage 5 35.4km/h Stage 6 33.3km/h 4. 36.3km/h to 38.5km/h 5. a) 10.25km b) 14mins c) 43.2km/h to 43.9km/h 6. 1hr 51m 7. a) 447.9km b) 12hr 20m 8. 88.25%



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Suggested homework activities

- Create separate bar charts to display the stage distances, winning stage times and the average speeds.
- Use a trend graph to show the number of starters and finishers for each stage. Are there any patterns? Did more people drop out towards the beginning or end of the race? Analyse the data and describe the information you see.
- On the computer create a pie chart showing each stage distance as a percentage of the total race distance

Curriculum links

Mathematics

- present information appropriately in tabular, graphical and pictorial form and read information presented in these forms
- use mathematical equipment such as calculators, rulers, set squares, protractors and compasses, as required for these procedures
- interpret mathematical statements
- interpret information presented in tabular, graphical and pictorial form
- select and use appropriate mathematical formulae or techniques in order to process the information;
- draw relevant conclusions
- use mathematical methods successfully
- SI units of length (m), area (m^2), volume (m^3), mass (kg), and time(s). Multiples and submultiples. Twenty-four hour clock, transport timetables. Relationship between average speed, distance and time.
- Collecting and recording data. Tabulating data. Drawing and interpreting bar-charts, pie-charts and trend graphs