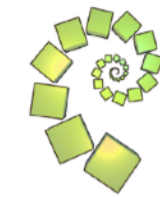


NRICH promotes ... Working Collaboratively

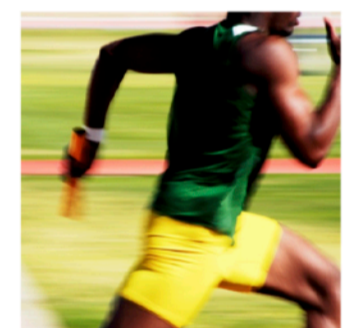
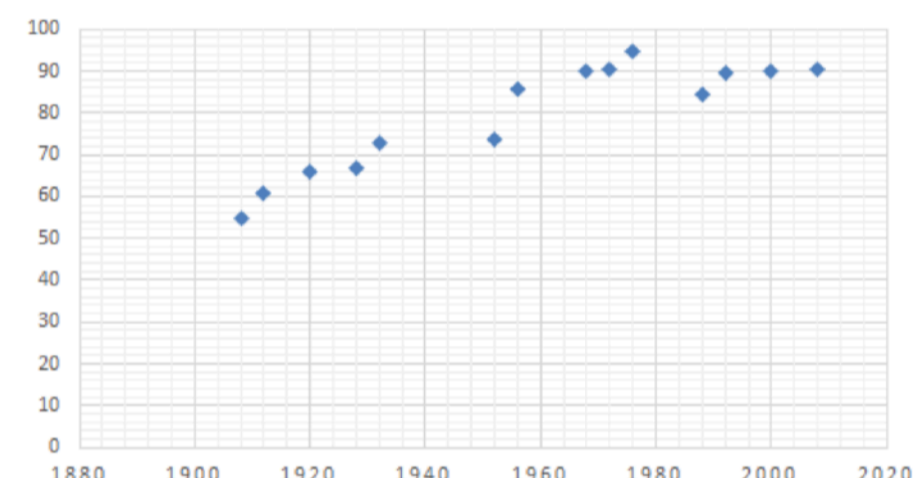
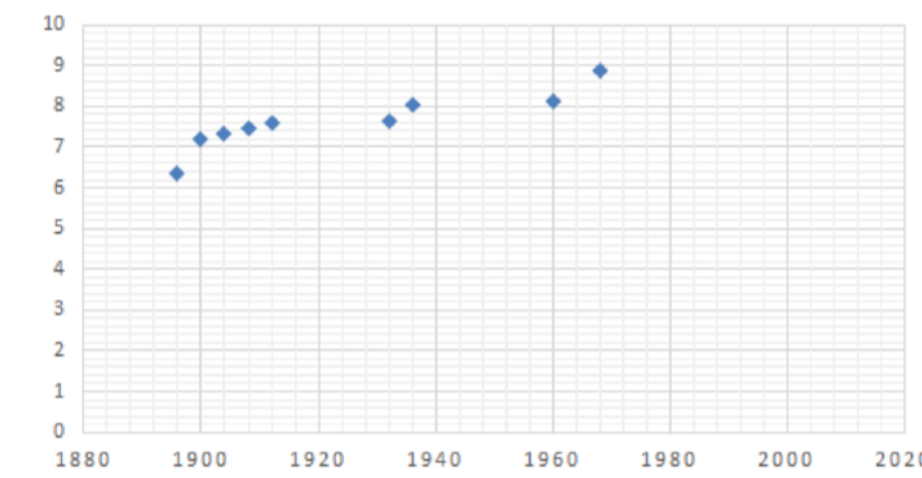
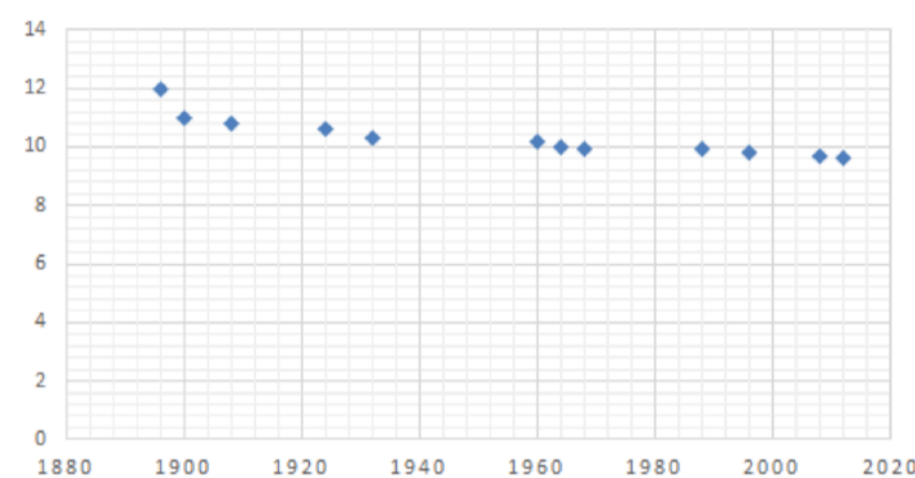


Olympic Records



The graphs below show how Olympic records have changed over time in 4 track and field athletics events.

Can you deduce which event each graph represents?



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Magic Vs



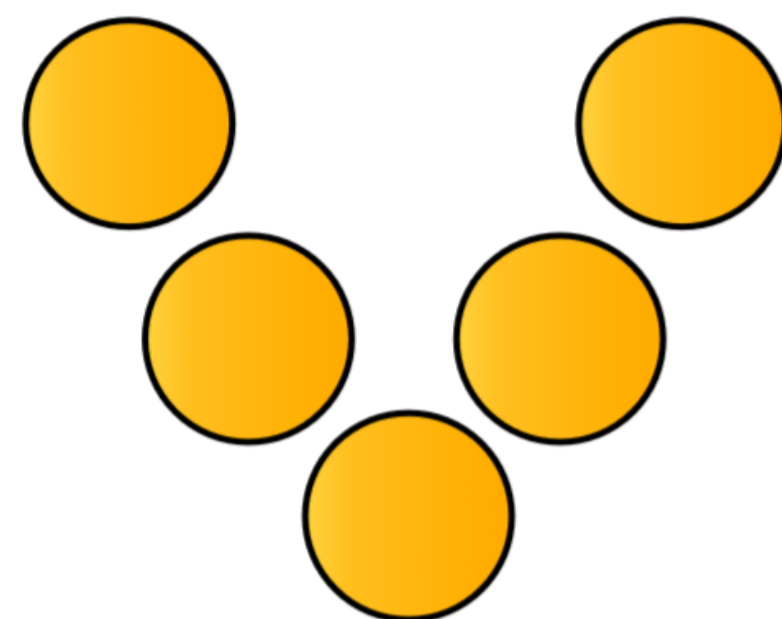
Place each of the numbers 1 to 5 in the V shape so that the two arms of the V have the same total.

How many different possibilities are there?

Can you convince someone that you have all the solutions?

What happens if we use the numbers from 2 to 6? From 12 to 16? From 37 to 41? From 103 to 107?

Investigate the same problem with a V that has arms of length 4.



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At NRICH we recognise the importance of discussion, collaboration and sharing ideas.

NRICH offers students opportunities to:

- work collaboratively with other people, valuing different approaches
- communicate their reasoning, listen to the reasoning of others, and adapt their thinking accordingly
- solve problems together that might be too challenging to do alone

NRICH invites students to join our global mathematical community. We encourage them to submit solutions to live problems on the site, which we then publish.