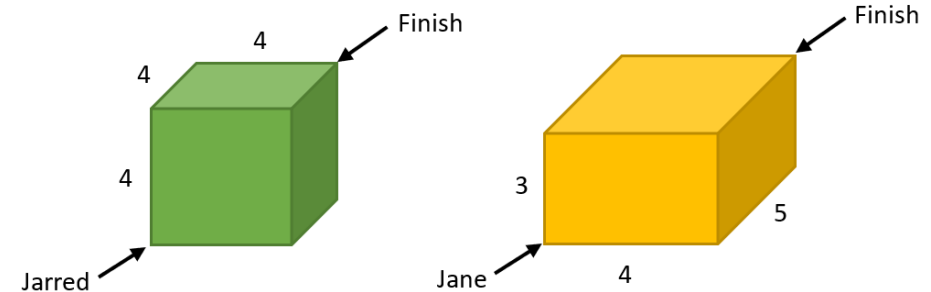


# MONTHLY CHALLENGE

## MATHEMATICS – HIGH SCHOOL

### SPIDER RACE

Jarred and Jane are two spiders. They enjoy racing against one another. However, they have the exact same crawling speed so they always tie. One day they decided to construct a race where only one of them could win. The race will be held around two different cuboids. They will each start on the bottom left corner of the cuboid and crawl as fast as they can to the top opposite corner. The picture illustrates the setup of the race.



Both Jane and Jarred will take the shortest route possible in the race. Who would be able to reach the opposite corner first? Explain how you got your answer.

Please type this link into your Google search bar to answer

<https://forms.gle/QT5osYVKfqkppohw6>

(You will be asked for your name and surname, your grade and your school name.)

#### INSTRUCTIONS:

- Due date for you to submit your answer on the Google form is 20 July 2022.
- We will announce the Provincial winner for each challenge later in July.
- Solutions will be published on the website at this link - [www.ctsc.org.za/stem-clubs/](http://www.ctsc.org.za/stem-clubs/)

