

Marathon Glory!



VICTORIAN BIOSCIENCE
EDUCATION CENTRE

Curriculum Links

Level 7

Introduce the concept of variables as a way of representing numbers using letters (VCMNA251)

Create algebraic expressions and evaluate them by substituting a given value for each variable (VCMNA252)

Round decimals to a specified number of decimal places (VCMNA246)

Level 8

Solve problems involving the use of percentages, including percentage increases and decreases and percentage error, with and without digital technologies (VCMNA276)

Learning Intention and Success Criteria

Learning Intention

To be able to calculate percentage differences.

Success Criteria

- ✓ Identify fastest and slowest marathon times for athletes.
- ✓ Demonstrate attempts to follow formula by showing working out.
- ✓ Calculate the percentage difference of marathon times for all three athletes.

Equipment Required

Students will require:

- The worksheet that students complete is a word document that has been designed using the developer function. This means that students can save the document to their device and are able to modify certain sections to record their answers. It is highly recommended that you attempt the task yourself before distributing to familiarise yourself with the activity.
- To begin students will need to open the document, press 'View' on the top heading bar, then 'Edit Document'. They are then encouraged to save it to their desktop (including their name) before they begin the task.
- An answer sheet has been provided for student feedback.
- Calculator

Career Pathways

Being able to follow simple equations is a vital skill for everyone! While digital technology is making our life easier, these skills are still very valuable for students to learn and develop.

Jobs ranging from scientists and mathematicians to builders and architects require the ability to use equations on a daily basis.