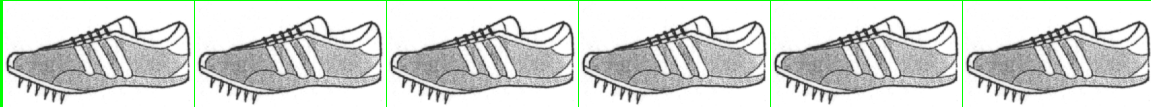


In the Running



for the Olympics

Tokyo in 2021

**A Mathematical Project for
Students**

Barbara Healy BSc BEd



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INSTRUCTIONS TO STUDENTS

- The purpose of this unit of work, based on the theme “In the Running for the Olympics”, is to help you to revise your mathematics in the context of a problem solving activity.
- Diagrams in this book are not drawn to scale. Use the measurements on each of the diagrams in your calculations.
- Use the answers to the clues to complete the crossword on the last page of this book.

A NOTE TO TEACHERS AND PARENTS

Five good reasons to use this project with your students.

- Bring mathematics to life with this project
- Introduce new topics and revise work
- Provide extra work for mathematically gifted students
- Give a sense of achievement to students who find mathematics difficult
- Classroom trials show that students love doing this project

Mathematics topics covered in the project “In the Running for the Olympics”

- digital time
- movement on a grid
- addition, subtraction, multiplication, division
- prime numbers
- Roman Numerals
- number sequences
- number and money word problems
- time (days, weeks, months, years, decades)
- puzzles using a grid
- triangular numbers
- square numbers
- decimals (addition, subtraction, multiplication)
- millilitres, litres
- probability and statistics
- grams, kilograms, tonnes
- perimeter
- nets of solids
- cylinder
- triangular prism
- cube
- square pyramid
- cone
- triangular pyramid
- logic puzzles
- cryptograms
- magic squares
- angles



Let the Games begin!

My name is _____

- **I set out to discover some Olympic facts**

at (time) _____

on (day) _____

date _____

- **I found the names of the cities that have hosted the Olympic Games**

at (time) _____

on (day) _____

date _____

- **The time taken to solve the problems and to complete the crossword was**

Solve the clues 1 - 6 and find the name of a city that has hosted the Olympic Games.

CLUE 1.

Write half past six in digital time.

Write the answer you have found in the box below.

CLUE 1

CLUE 2.

Which one of the following is the latest time in the day?

6:15 6:30 6:03 6:51

Write the answer you have found in the box below.

CLUE 2

CLUE 3.

What is 6:05 + 20 minutes in digital time?

Write the answer you have found in the box below.

CLUE 3



**DID YOU KNOW
THAT ...**

Ray Ewry of the USA won three successive gold medals in the standing long jump at the 1900, 1904 and 1908 Olympic Games?

CLUE 4.

What is 20 minutes before 7:00 in digital time?

Write the answer you have found in the box below.

CLUE 4

CLUE 5.

What is 7:10 - 15 minutes in digital time?

.....
.....

Write the answer you have found in the box below.

CLUE 5

CLUE 6.

A clock is 20 minutes fast. The clock is reading 6:35. What is the correct time?

.....
.....

Write the answer you have found in the box below.

CLUE 6



**DID YOU KNOW
THAT ...**

Hannes Kolehmainen of Finland won the gold medals for the 5000 m, 10,000 m and 12,000 m Individual Cross-country at the 1912 Olympic Games?

- The answer to Clue 1 can be represented by the letter **H**
- The answer to Clue 2 can be represented by the letter **S**
- The answer to Clue 3 can be represented by the letter **N**
- The answer to Clue 4 can be represented by the letter **T**
- The answer to Clue 5 can be represented by the letter **E**
- The answer to Clue 6 can be represented by the letter **A**

Complete the following table to find a city that has hosted an Olympic Games.

6:15	6:40	6:30	6:55	6:25	6:51

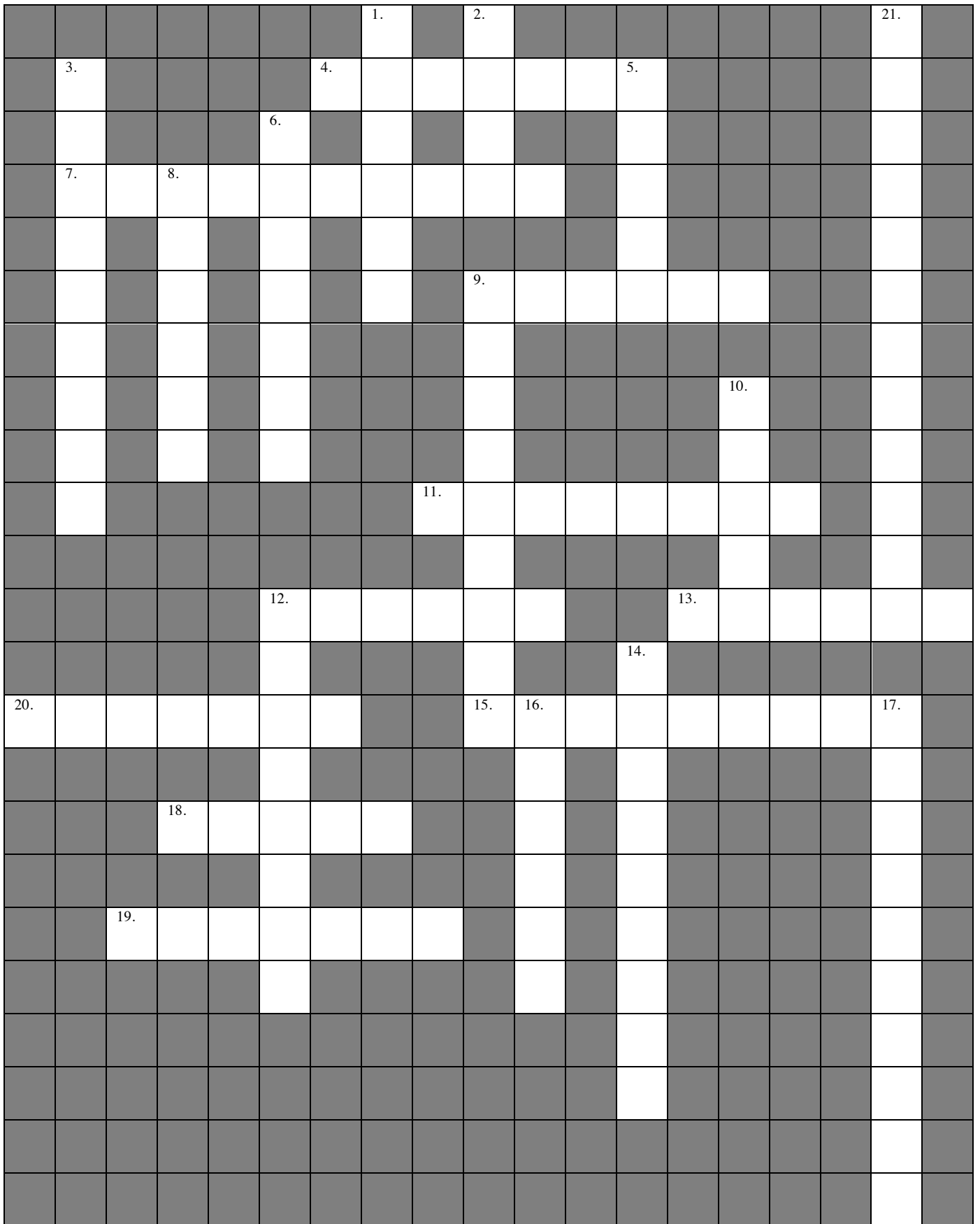
- This is the solution to **1 down** in the Olympic Crossword at the back of this book.
- Fill in **1 down** in the Olympic Crossword.



DID YOU KNOW THAT ...

Jim Thorpe, an American Indian, won the gold medals for the Decathlon and the Pentathlon at the 1912 Olympic Games?

Olympic Crossword



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In the Running for the Olympics

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Fantastic mathematics for the postponed Olympic Year!
Olympic Games Tokyo Japan.

Olympics Mathematics

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