

# Paddle On

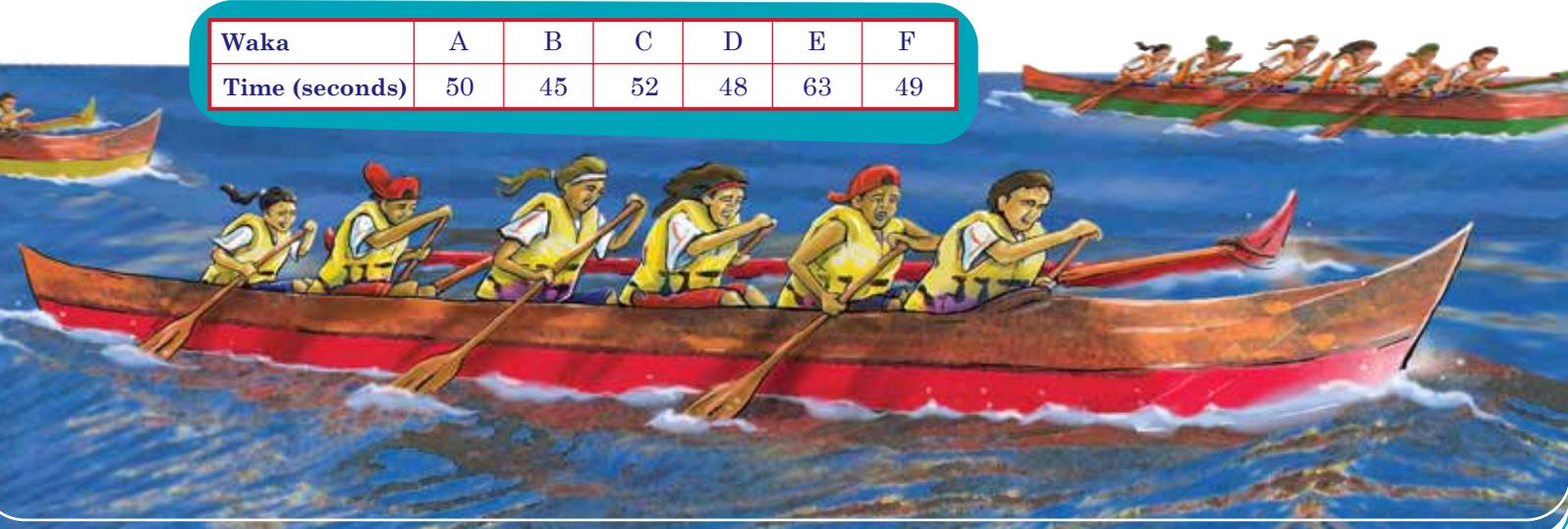
You need  a calculator

## Activity

Kapiki and Kere paddle in a waka ama crew. There is a festival on, and their crew is entered in two races, the 80 metre sprint and a 12 kilometre race.

In their 80 metre sprint heat, the following times were recorded:

Waka	A	B	C	D	E	F
Time (seconds)	50	45	52	48	63	49



1. What is the average (mean) speed of each waka in metres per second (m/s)? (Round your answer to 1 decimal place.)
2. In the sprint, Kapiki and Kere's crew paddles 6 strokes on one side, then 6 on the other, and so on. It usually takes them 21 seconds to do 18 strokes.
  - a. How long does it take them to do a set of 6 strokes?
  - b. How many sets of 6 strokes did they do in their time of 49 seconds?
  - c. The crew in waka D paddle at the same rate. How many sets of 6 strokes did they do? Explain your answer.
3. How many sets of 12 strokes have crew F done if they have paddled:
  - a. 72 strokes?
  - b. 132 strokes?
  - c. 218 strokes?
4. In the 12 kilometre race, the following times were recorded:

Waka	A	B	C	D	E	F
Time (minutes)	105	120	130	110	150	115

What is the average speed of each waka in metres per minute (m/min)? (Round your answer to 1 decimal place.)