Comparing by Finding Rates

A class needs 8 kilograms of Wheatie Flakes for a class camp. Fill in the table, then plan the cheapest way to buy this breakfast food.

Item	Weight	Cost	Cost per 100 grams
Wheatie Flakes (Large)	750 grams	$5.78	
Wheatie Flakes (Jumbo size)	1.6 kg	$11.50	
Wheatie Flakes (Medium size)	400 grams	$3.50	
Wheatie Flakes (Small size)	250 grams	$1.51	

Planning

Jules and Simon agree to a race of two laps. The track is 2 km long. Jules decides to travel at 100 km per hour for both laps, and Simon decides to travel at 200 km per hour for lap one, then 50 km per hour for lap two. Simon argues he will win the race, but Jules says he will win.

To prove this Jules sets a table of calculations. Fill in the table to demonstrate Jules will win.

	Time for Lap 1	Time for Lap 2	Total Time
Jules	2 ÷ 100 = 0.02 hour	2 ÷ 100 = 0.02 hour	0.04 hour
Simon	2 ÷ 200 = 0.01 hour		

In another race Jules again decides do both laps at 100 km per hour, and Simon decides to travel at 250 km per hour for lap one, then 50 km per hour for lap two. Fill in the table and decide who wins.

	Time for Lap 1	Time for Lap 2	Total Time
Jules			
Simon			

The winner is