

SWIMMING SPORTS



The following times were recorded for the Under 14 Freestyle. The times are shown in seconds.

Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Lane 6	Lane 7	Lane 8
39.26	45.7	44.3	38	37.24	41.08	39.4	40.84

a. Complete the following table to show who came first second, third etc

Place	Lane
First	
Second	
Third	
Fourth	
Fifth	
Sixth	
Seventh	
Eighth	

b. In the State Final of the Under 14 Breaststroke, Sally improved her personal best time by 2%. What was her time in the State Final if her previous personal best was 52 seconds exactly? **Explain your reasoning using as much mathematics as you can.**

SCORING RUBRIC

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TASK:	RESPONSE:	SCORE
a.	No response or largely incorrect (4 or more misplaced)	0
	Partially correct (only 1 to 3 misplaced)	1
	Correct (1 st to 8 th identified correctly as Lane 5, Lane 4, Lane 1, Lane 7, Lane 8, Lane 6, Lane 3, and Lane 2 respectively)	2
b.	No response	0
	Incorrect but working and/or explanation indicates some attempt to find 2% of 52 seconds using place-value or an appropriate calculation, eg, 1% identified but not doubled or 2% found but added to 52 seconds	1
	Correct (50.96 seconds) but little or no working or explanation to justify conclusion	2
	Correct (50.96 seconds), reasoning based on appropriate calculation (eg, 52×0.98) or place-value (eg, 1 hundredth of 52 is 0.52 so 2% is 1.04, take 1.04 from 52)	3