

Speedo

Approach: Independent

Level: Year 4 and year 8

Focus: Addition and subtraction, place value.

Resources: None.

<i>Questions/instructions:</i>		% responses	
		y4	y8
A trip meter on a speedo shows how many kilometres a car travels.			
1. Write what the trip meter will show if the car travels one more kilometre than:			
[The trip meter and response blank was presented like this:]	<div>1996</div> <div>1997</div>	52	84
2. Write what the trip meter will show if the car travels ten more kilometres than:	<div>1996</div> <div>2006</div>	11	61
3. Write what the trip meter will show if the car travels one hundred more kilometres than:	<div>1996</div> <div>2096</div>	8	45
4. Write what the trip will show if the car travels one thousand more kilometres than:	<div>1996</div> <div>2996</div>	24	67
5. Write what the trip meter showed one kilometre before this:	<div>3402</div> <div>3401</div>	34	78
6. Write what the trip meter showed ten kilometres before this:	<div>3402</div> <div>3392</div>	7	52
7. Write what the trip meter showed one hundred kilometres before this:	<div>3402</div> <div>3302</div>	17	68
8. Write what the trip meter showed one thousand kilometres before this:	<div>3402</div> <div>2402</div>	21	68
Total score:		8	2
		6-7	7
		4-5	10
		2-3	21
		0-1	60

Commentary

Most year 4 students showed a low level of understanding of place value, and very few succeeded when renaming was required. About 60 percent of year 8 students gave correct answers to 6 or more of the 8 components.