

Approach: Station
 Focus: Planetary motion and time
 Resources: None

Year: 4 & 8

Questions / instructions:

hour	day	week	month	year
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Choose one word from the box which is the best answer to each question.

- How long does it take for the Moon to go right around the Earth?
 - hour 13 (12) 4 (3)
 - day 32 (31) 35 (32)
 - week 11 (9) 12 (8)
 - ✓ month 19 (26) 31 (41)
 - year 22 (20) 15 (13)
- How long does it take for the Earth to turn once on its own axis?
 - hour 12 (10) 7 (4)
 - ✓ day 23 (27) 37 (41)
 - week 17 (17) 15 (17)
 - month 24 (22) 20 (19)
 - year 19 (21) 19 (17)
- How long does it take for the Earth to go right around the Sun?
 - hour 8 (8) 3 (2)
 - day 13 (16) 15 (13)
 - week 15 (13) 8 (7)
 - month 18 (15) 10 (9)
 - ✓ year 44 (45) 63 (66)

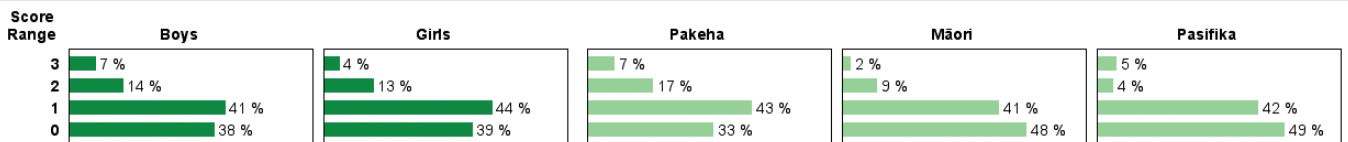
% response
2007 ('03)
year 4 year 8

% response
2007 ('03)
year 4 year 8

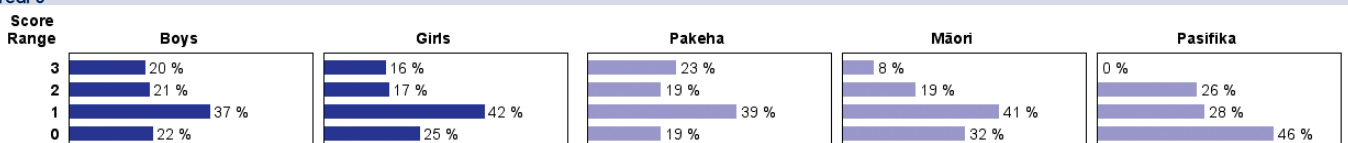
Total score:	3	5 (9)	18 (25)
	2	14 (15)	19 (19)
	1	42 (41)	39 (35)
	0	39 (35)	24 (21)

Subgroup Analyses:

Year 4



Year 8



Commentary:

About 80% of year 4 students and 65% of year 8 students showed little knowledge of the relationships between planetary motion and time periods on Earth. There was little change in performance at either level between 2003 and 2007.