

# Trend Task: Which Unit?

Approach: Independent  
 Focus: Units of measurement  
 Resources: Answer booklet

Year: 4 & 8

### Units provided for Year 4

tonne (t)                      kilogram (kg)  
 gram (g)                      millimetre (mm)  
 centimetre (cm)            metre (m)  
 kilometre (km)

### Units provided for Year 8

tonne (t)                      kilogram (kg)  
 gram (g)                      millimetre (mm)  
 centimetre (cm)            metre (m)  
 kilometre (km)              square centimetres (cm<sup>2</sup>)  
 square metres (m<sup>2</sup>)        square kilometres (km<sup>2</sup>)  
 hectare (h)

### Questions / instructions:

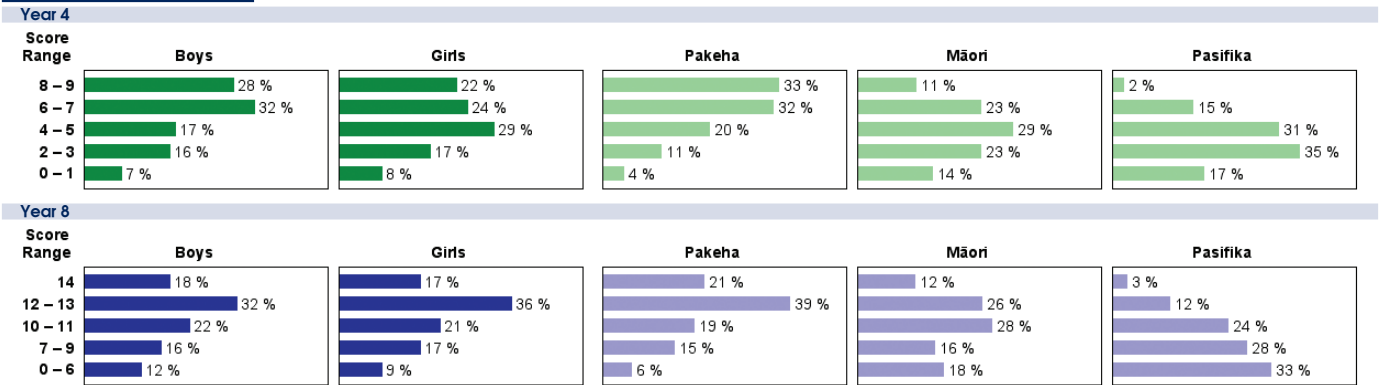
Which unit of measurement would you use to measure each of these?

		% response 2008 ('04)	
		year 4	year 8
1. The length of a piece of ribbon.	✓✓ centimetre ✓ millimetre ✓ metre	52 (50) 14 (15) 18 (17)	74 (80) 9 (10) 7 (6)
2. The weight of a big truck.	✓✓ tonne ✓ kilogram	53 (48) 24 (24)	81 (86) 9 (9)
3. The amount of butter needed for a cake.	✓✓ gram ✓ kilogram	53 (58) 22 (17)	84 (84) 8 (11)
4. Carpet for your bedroom floor.	✓✓ (Y8) square metre ✓ metre	46 (48)	57 (54) 16 (23)
5. The distance between Auckland and Taupo.	✓ kilometre	62 (62)	82 (88)
6. The length of a football field.	✓ metre	41 (41)	55 (59)

### YEAR 8 ONLY:

		% response 2008 ('04)	
		year 4	year 8
7. The thickness of a nail.	✓✓ millimetre ✓ centimetre	68 (70) 10 (9)	
8. The area of a farm.	✓✓ hectare ✓ square metre	58 (57) 19 (24)	
<b>Y4 Total Score:</b>			
	8-9	25 (24)	
	6-7	28 (30)	
	4-5	23 (20)	
	2-3	17 (18)	
	0-1	7 (8)	
<b>Y8 Total Score:</b>	14	18 (17)	
	12-13	34 (36)	
	10-11	21 (26)	
	7-9	16 (14)	
	0-6	11 (7)	

### Subgroup Analyses:



### Commentary:

At both year levels, performance was very similar in 2005 and 2009. Māori and Pasifika year 4 students scored much lower, on average, than the year 4 Pakeha students, and the performance difference between year 8 Pakeha and Pasifika students was very large.