

Trend Task: Posting Parcels

Approach: Station

Year: 4 & 8

Focus: Measuring weight; reading a table

Resources: 3 parcels, scales, N.Z. Post table, answer booklet

Questions / instructions:

Look at the three parcels that need to be posted.

Use the scales to weigh each parcel.



Parcel Post Sector	Price					
	0-500g	500-1kg	1-1.5kg	1.5-2kg	2-2.5kg	2.5-3kg
Across Town <i>Within city boundaries</i>	\$2.50			\$5.00		
Short Haul <i>Up to 150km within an island</i>	\$3.00			\$6.50		
Within Islands <i>Over 150km within an island</i>	\$4.20		\$6.70		\$8.40	
Between Islands <i>Between the North and South Island</i>	\$6.80	\$8.60	\$10.90	\$13.50	\$15.30	\$17.10

1. Write down how much each parcel weighs. Remember to write the unit of measurement.

		% response 2009 ('05)	
		year 4	year 8
Parcel A (300 gm):	275 – 310 gm	79 (75)	64 (61)
	> 310 gm	11 (13)	28 (30)
	< 275 gm	4 (8)	2 (5)
Appropriate units given:	yes	40 (39)	77 (82)
	no, no units	24 (20)	5 (7)
	no, inappropriate units	36 (41)	18 (11)
Parcel B (1.1 kg):	1.075kg – 1.125 kg	22 (17)	54 (57)
	> 1.125 kg	22 (17)	21 (19)
	< 1.075 kg	31 (32)	9 (14)
Appropriate units given:	yes	41 (38)	68 (76)
	no, no units	27 (19)	5 (7)
	no, inappropriate units	32 (43)	27 (17)
Parcel C (555 gm):	525 – 585 gm	6 (4)	28 (27)
	> 585 gm	72 (72)	55 (56)
	< 525 gm	14 (15)	7 (10)
Appropriate units given:	yes	39 (37)	74 (82)
	no, no units	27 (19)	5 (7)
	no, inappropriate units	34 (44)	21 (11)

Use the New Zealand Post chart to work out the answers to these questions.

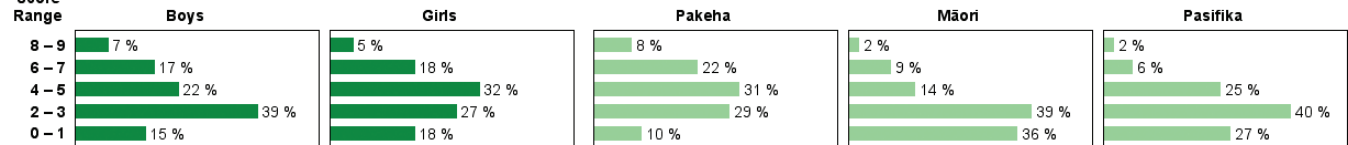
		% response 2009 ('05)	
		year 4	year 8
2. How much would it cost to send Parcel A <i>Across Town</i> ?	\$2.50	68 (61)	87 (93)
	\$5.00	10 (15)	2 (3)
3. How much would it cost to send Parcel B <i>Between Islands</i> ?	\$10.90	22 (20)	56 (61)
	correct cost for reported weight	10 (13)	7 (7)
4. How much would it cost to send Parcel C <i>Within Islands</i> ?	\$4.20	43 (33)	68 (75)
	correct cost for reported weight	5 (7)	5 (1)

Total Score:	8–9	6 (3)	27 (30)
	6–7	18 (12)	35 (41)
	4–5	26 (25)	24 (18)
	2–3	33 (40)	8 (9)
	0–1	17 (20)	6 (2)

Subgroup Analyses:

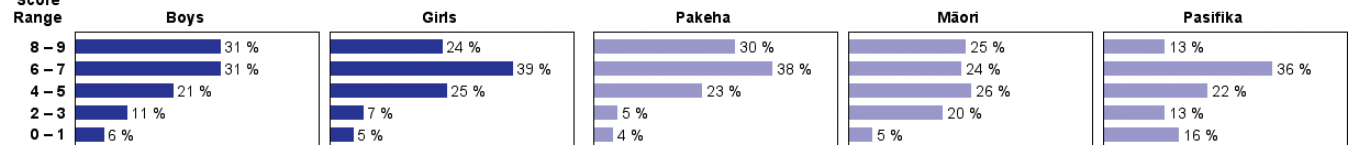
Year 4

Score Range



Year 8

Score Range



Commentary:

Many students weighed Parcel C to the nearest 100 grams (600gm), rather than more precisely (Parcel C actually weighed 555gm). Year 4 students scored slightly higher in 2009 than 2005, and year 8 students slightly lower. On average, year 4 Māori and Pasifika students scored substantially lower than Pakeha students.