## He Āhuahanga Papatahi — Flat Shapes

Approach: Station

Focus: Nets of 3D objects.

Resources: Laptop computer with video recording of instructions and example; bottle with label,

Jaffa packet, ruler, measuring tape.

Jujju packet, fulet, measuring tape.						
Questions/instructions:		% resp	oonses <b>MI</b>		% resp <b>GEd</b>	
Click the buttor Click the <i>Play</i> be that plays. Then Kei runga tēnei te pātene e kī a <i>Papatabi - Wa</i>	mahi i te rorohiko. Pāwhiria na <i>He Āhuahanga</i> āhanga Tuatahi. Pāwhiria uta, ka mātaki ai i taua			<ul> <li>3. Remember: you need to draw what the Jaffa packet looked like before it was made (to the nearest centimetre).</li> <li>Draw dotted lines to show where you would fold it.</li> <li>Label the parts of your drawing.</li> <li>Label the length of each line.</li> <li>3. Me maumahara: E tika ana me tā koe i te āhua o te pouaka Jaffa i mua i tōna hangatanga.</li> </ul>		
1. Draw the shape of the label before it was put on the bottle (to the nearest centimetre). Label the length of each line.				<ul> <li>Tuhia he <u>rārangi ira</u> [dotted lines] hei whakaatu, ki hea ngā <u>whātuitanga</u> [folds].</li> </ul>		
Tāhia te āhua o te tapanga i mua o te whakapiringa ki runga pounamu. Tuhia te roa o ia rārangi (tuhia ki te henimita tino pātata).				<ul> <li>Whakaingoatia ngā wāhanga o tō pikitia.</li> </ul>		
				<ul> <li>Tuhia te roa o ia rārangi (ki te henimita tino pātata).</li> </ul>		
label shape is rectangular		80	65	Drawing of Jaffa box:		
label size recorded accurately with or without units (8.5–8.9cm x 3.5-4.5cm)		10	0	4 sides, 2 ends, 3 glueing flaps, 4 small flaps appropriately proportioned	4	0
recorded but incomplete or inaccurate		24	17	as above, except not including 4 small flaps	5	4
2. Write the name of the shape.				4 sides and 2 ends, appropriately proportioned	15	12
Tuhia te ingoa o te āhua.				basic idea correct but significant distortions	37	
Answer:	rectangle or oblong	64	57	Measurements given and accurate:	5,	-5
				(12–13cm, 3.1-3.9cm, 1.6–2.4cm) all major	2	0
Click the button that says <i>Flat Shapes Part 2</i> . Click the <i>Play</i> button and watch the video that plays. The video tells you what to do with the Jaffa packet.  Pāwhiria te pātene e kī ana <i>He Āhuahanga Papatahi - Wāhanga Tuarua</i> . Pāwhiria te pātene <i>Tīmata</i> , ka mātaki ai i taua rīpene ataata. Mā te ataata e whakaatu me ahatia e koe, te pouaka Jaffa.				most major	14	9

## Commentary

Māori students in general education (GEd) settings scored statistically significantly higher than students in Māori immersion (MI) settings.