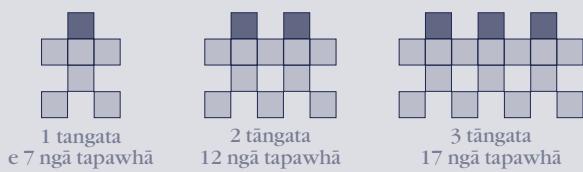# Taurangi/Whakaaro Arorau A — Algebra/Logic Items A

Approach: Independent
Focus: Varied algebra items.
Resources: None.

Questions/instructions

| 1 tangata e 7 ngā tapawhā | 2 tāngata 12 ngā tapawhā | 3 tāngata 17 ngā tapawhā |

1. How many tiles will you need to make the pattern for **10** people?

E hia ngā tapawhā hei mahi i te tauira mō te 10 tāngata?

	% responses
	GEd **MI**
52	16 11

2. Which statement is true?

Ko tēhea te mea tika?

Ⓐ 442 > 436

B 352 > 759

C 518 > 819

D 883 < 794

% responses
A 55 17

3. What rule is used to get the numbers in Column B from the numbers in Column A?

Ko tēhea te ture e whakaatu ana i ahatia tau o te Poutū A kia oti mai tau o te Poutū B

Column A Poutū A	Column B Poutū B
12	3
16	4
24	6
40	10

% responses
GEd MI

Ⓐ Divide the number in Column A by 4.
Whakawehea tau o te poutū A mā te 4.

A 42 43

B Multiply the number in Column A by 4.
Whakaraua tau o te poutū A mā te 4.

C Subtract 9 from the number in Column A.
Tangohia te 9 mai i tau o te poutū A

D Add 9 to the number in Column A.
Tāpiritia te 9 ki ia tau o te poutū A

% responses
GEd MI

4. $3 \times (\boxed{} + 5) = 30$
The number in this box should be

Ko te tau tika kē mō te pouaka, ko te

A 2

Ⓑ 5

C 10

D 22

B 55 13

5. If $\frac{2}{25} = \frac{n}{500}$, then n =

Mehemea $\frac{2}{25} = \frac{n}{500}$, ana, ko te n =

A 20

B 30

Ⓒ 40

D 50

C 25 55

6. $x < 6$
x is a whole number.
Write down the solution set of this sentence.

He <u>tau oti</u> [whole number] te x.
Tuhia te huinga tau mō te x.

0,1,2,3,4,5	3 0
1,2,3,4,5	3 0

Commentary

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