

**Modelling - Patterns**  
**Rob Vingerhoets**

**Vocabulary:** algebra, multiplying, decimals, tenths, hundredths, estimating, fractions, logic  
**Reinforce self-correction and persistence**  
**Maths is not 'tricky' - it might be challenging but maths won't trick you. It has rules.**

**Warm-up 1**

**Guesses to Make It**

$3 \times \square = 50$

player 1

- 1)  $3 \times 15 = 45$
- 2)  $3 \times 17 = 51$
- 3)  $3 \times 16.7 = 50.1$

player 2

- $3 \times 16 = 48$
- $3 \times 16.5 = 49.5$
- $3 \times 16.66$

$7 \times \square = 4$

player 1

- 1)  $7 \times 0.5 = 3.5$
- 2) etc
- 3)

player 2

$7 \times 0.6 = 4.2$

**Student Activity**

**This activity is based on trivia. How you get to an answer is what is important because it involves logic, which is what mathematics is based on.**

Groups of 3

In what year was the first recorded death of a pedestrian by a motor car?

						Bonus
Year	exact	Within 3	Within 5	Within 7	Within 10	
	/10	/7	/5	/3	/1	
City	exact	close	near			If well-reasoned
	/5	/3	/1			/1
Make	exact	Incorrect but excellent reasoning	Incorrect but good reasoning			
	/5	/3	/1			
Speed (kph)	exact	Within 5	Within 10			
	/5	/3	/1			

Extra task: In what year was the first Laundromat opened and where? Bonus point for the model.

Give students time to discuss.

Encourage students in each group to think about what they know.

Group	Year /10	City /5	Make /5	Speed /5	Total /25
1					
2					
3					
4					
5					

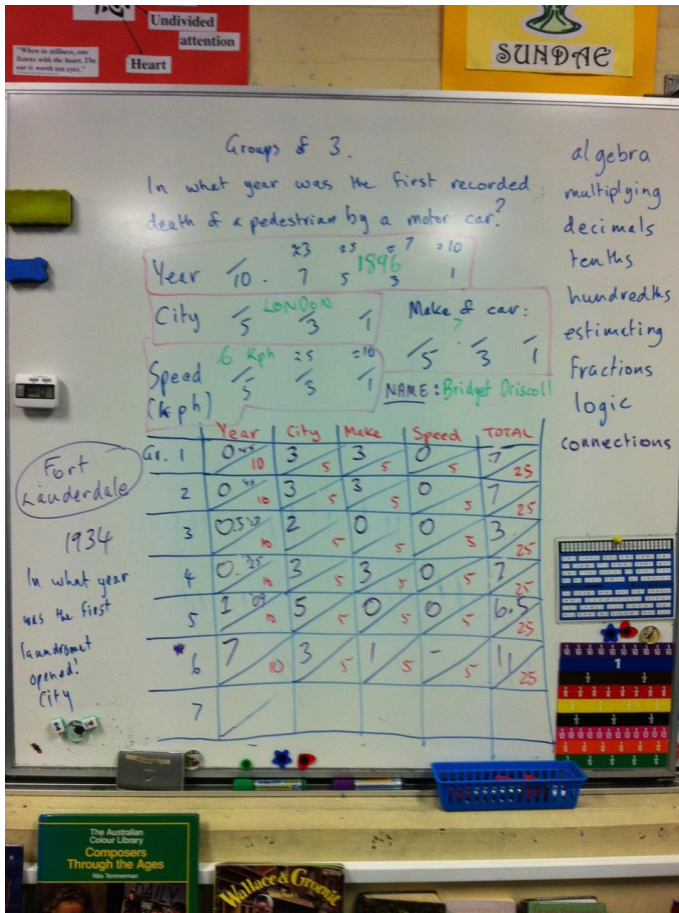
Year: 1896

City: London

Make of Car: don't know, but interested in thinking/reasoning

Speed: 6kph

Name: Bridget Driscoll



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