

<b>NAME:</b>	<b>TEACHER:</b>
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**DATE:**

# Mission Heights Junior College



## AS 91026(V3)

Apply numeric reasoning in solving problems

### Moving Out- Modified NZAMT task

**Credits: 4**

#### Context/setting

Flating is one of the common types of accommodation among kiwi students. Some of you might go on flatting during your tertiary student life. This activity is based around two boys wanting to move into a flat.

**Conditions**-All work must be performed individually.

You should show all your working and justify any decisions you take.

Achievement	Achievement with Merit	Achievement with Excellence
Apply numeric reasoning in solving problems. <span style="float: right;"><input type="checkbox"/></span>	Apply numeric reasoning, using relational thinking, in solving problems. <span style="float: right;"><input type="checkbox"/></span>	Apply numeric reasoning, using extended abstract thinking, in solving problems <span style="float: right;"><input type="checkbox"/></span>
Overall level of performance		<input type="checkbox"/>



## Moving Out

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### Student instructions sheet

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Twins Kaleb and Marc have been saving to move into a flat. Together, they have a total of \$1200 which they intend to deposit into a joint flat bank account. They would like to be able to buy the following items:

- a jug
- a toaster
- a microwave
- a washing machine
- a fridge freezer.

They will also need to pay the deposit on the flat. The rental is \$290 a week and the deposit is 4 weeks rent.

The boys have done some research and found two stores where they can get the above items at reasonable prices.

<b>Lucy's Super Store</b>	
Jug	\$59.99
Toaster	\$69.00
Microwave	\$209.00
Washing Machine	\$499.99
Fridge freezer	\$620.00
Free delivery	
Note: all prices include GST (15%)	

<b>Amy's Wholesalers</b>	
Jug	\$41.00
Toaster	\$25.60
Microwave	\$127.40
Washing Machine	\$412.20
Fridge freezer	\$533.20
Delivery charge \$80 on orders under \$1000	
Note: all prices are exclusive of GST (15%)	

Various family members have offered to help the boys get the money they need.

Uncle Thomas in America will send them 85 American Dollars when they are nearly ready to move

Aunty Lisa in Australia will send them 250 Australian Dollars

Uncle Max says they can do some work for him and he will pay them  $\frac{3}{8}$  of the deposit on the flat

Nana says she has some painting that they can do for her and she will pay them  $\frac{2}{7}$  of the cost of the household goods

Marc's girlfriend works at Lucy's Super Store and can get staff discount of 12.5%.

## Task

Investigate if the boys will have enough money to move into a flat they have found **and** buy the items they listed above.

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• **Note:**

• Current exchange rates:

• An American Dollar is worth 1.51 New Zealand Dollars

• A New Zealand Dollar is worth 0.90 Australian Dollars

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• Current bank interest rate:

• 1.2% per annum for amounts up to \$1,000, paid monthly

• 1.5% per annum for amounts over \$1,000, paid monthly

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*The quality of your discussion and reasoning will determine your overall grade.*

