



## Investigation 1- In Class Validation

## GST & Best Buys

Baldivis  
Secondary College

**[Calculator Allowed]**

**FULL MARKS WILL NOT BE GIVEN unless ALL working out is shown.**

Name: \_\_\_\_\_ Class \_\_\_\_\_

Total Marks: 15 marks  
Total Time: 20 minutes

**Goods & Services Tax (GST) is a tax that is added to goods or services**

(currently @ 10%) which shop-keepers & store owners pay to the government.

[Although GST does not currently apply to all food items, for the purpose of this investigation we shall assume it does.]



Or

$$\$110 \times 1.1 = \$121$$

(2 marks)

2. Decrease your answer to Qn. 1 above by 10%

$$\$121 \times 0.9 = \$108$$

Or

$$\begin{aligned}\$121 \times 10\% &= \$12.10 \\ \$121 - \$12.10 &= \underline{\$108}\end{aligned}$$

(1 mark)

3. Explain why you did not get \$110 as your answer

**Because you are finding 10% of different amounts.**

**10% Of \$110 is \$11,  
whereas 10% of \$121 is \$12.10**

Or similar

(2 marks)

4. If the GST was raised to 12%, how much would your family need to spend to buy the same groceries?

**\$110 x 1.12 + \$123.20**

$$\text{Or } \$110 + \$11 = (\$1.10 \times 2 = \$2.20) = \$13.20 + \$110.00 = \$123.20$$

(3 marks)

5. If you buy a 1.4 kg packet of Weet-bix for \$7. 00,  
How much is the cost price for 100g of Weet-bix?

$$(1000\text{g} = 1\text{Kg})$$

Find 1Kg \$ cost

$$\$7.00 / 1400 = \$0.5 = 50 \text{ cents}/100g$$

Or  
\$5/kg (1000g)

1g \$ cost

\$0.005

So 100g cost price is

50 c

(3 marks)

6. If 750g of Weet-bix sells for \$6.00, how much is the cost price per 100g?

**Reasoning:**

**\$8.00 / Kg**

$$750\text{g} = \frac{3}{4} \text{ of } 1\text{Kg}$$

**1/4 = \$2:00**

\$0.80c/ 100g

Which one is cheaper?

#5 or the 1.4 Kg packet, 50c/100g is cheaper than 80 c/100g

(4 marks)