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| Name:  Class: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Date: \_\_\_\_\_\_\_\_\_\_\_ |
|  | **Year 11 Essential Mathematics Unit 2**  SCORE:  / 25    **Mini Test 2.3 2018**  **Topic – Percentages**  ***Full working out MUST be shown to get full marks for each question.*** | | |
| **Total Time:** | 30 minutes |  | |
| **Weighting:** | 1% |
| **Equipment:** | To be provided by the student: Pen, pencil, ruler, scientific calculator,1 single sided page of A4 notes | | |

**Question 1**

Find: **[4 marks]**

1. The price of a $124 speaker after the 10% GST has been added
2. Sally’s new smart phone cost her $749.65 including the 10% GST. How much was the base price of her smart phone before the GST was added?

**Question 2 [6 marks]**

1. Janaya scored 70% on her latest mathematics test out of 60 marks. How many marks did Janaya score?
2. What percentage of $48 is $3?
3. A plumber’s quote is $350 before GST. What is the total amount you will have to pay, including the 10% GST?
4. An item increases in value by 25% to $175. What was the original price of the item?

**Question 3 [2 marks]**

A dress which used to cost $300 is on sale, with 20% off.

1. How much, in dollars, would you save?
2. How much, in dollars, would you pay for the dress?

**Question 4 [4 marks]**

1. Calculate the value of a $20 000 car after 3 years if it depreciates at 6% per year.
2. At the start of 2015, you earned $350 per week in your job. If you first got a 4% pay rise and later got a 3% pay rise, how much do you now earn each week?

**Question 5 [9 marks]**

1. If $3000 is invested at 4% p.a. simple interest for 3 years, what is the interest earned?
2. If $4500 is invested for two and a half years and it earns $528.75 interest, what is the interest rate per annum?
3. Bonnie would like to buy a car for $9 000. She has saved up $3000 so she will need to borrow the remainder from the bank. Simple interest is charged at 0.6% per month. Bonnie pays off her car after 7 years. How much in total does she end up paying for the car?

**End of Test**