|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description: Description: S:\AdminShared\All Staff\1 College Logo's\Baldivis_Logo_colour.jpgName: | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Date: *\_\_\_\_\_\_\_\_\_\_\_* |
|  | | **Year 11 Applications**  **Test 1, 2018**  **Topics – Percentages & Rates** | | 25  = % |
| **Total Time:** | | ***30*** *minutes* |  | |
| **Total Reading:** | | *2**minutes* |
| **Total Working:** | | *28**minutes* |
| **Weighting:** | | *2% of the year, 4% of the semester.* |
| **Equipment:** | | *SCSA Formula Sheet; 1 page notes (A4 one side,* ***Unfolded****), CASIO ClassPad; Scientific Calculator* | | |
| **1. [5 marks: 1, 1, 1, 2]**  a) Hannah scored 26 out of 34 in a test. Write this as a percentage correct to one decimal place.    b) Find 72% of $860.  c) Increase $235 by 12%.    d) 27% of a town’s population is under 18. If there are 3024 under 18s, what is the population of the town? | | | | |
| **2.** | **[3 marks]** | | | |

George, Annie’s brother, runs a hardware store. To sell a lawn mower that he has had in the store for 3 years he decides to sell it at a discount. George sells the lawn mower for $350. What was the original price for the mower?

**3. [5marks: 1, 1, 3]**

An electronics store increased the prices of all laptops by 7%. A laptop originally cost $995.

What was the new price of the laptop after the price increase?

During the end of year sales, all stock was now discounted by 10%.

What is the price of the laptop during the end of year sales?

Calculate the overall percentage change in price from the original price.

**4. [2 marks]**

Calculate the profit made on a second hand car bought for $3,185 and sold for $4,670.

**5. [2 marks]**

Assuming that the annual rate of inflation remains steady at 3.19%, what would the value of an item be in two years’ time if it costs $90.00 now?

**6. [3 marks]**

Fruits and vegetables do not incur GST. If the total shopping bill is $107, and fruits and vegetables amount to $72, what is the cost of the other items prior to adding GST? Give your answer correct to two decimal places.

**7. [5 marks: 1, 1, 1, 2]**

Gustavo imports pottery from Europe. He buys a shipment of pottery for AUD15 700. The exchange rate with the Australian dollar at the time was EUR0.8143.

**a)** How much did it cost him in euros?

**b)** The shipping costs were EUR735. How much is this equivalent to in Australian dollars?

**c)** Calculate the total cost, in AUD, of importing the pottery.

**d)** Gustavo has a 160% mark-up for his profit margin. How much will he need to sell the shipment for?