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| Mathematics Department | |  |
| Course: A1MAA | |
| Topic Title: Test 1 – Calculator Free | |
| Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_ | | |
| Special Instructions: Math Applications Formulae Sheet | Time Allowed: 20 minutes | | |
| **Show all your working clearly** | Marks: / 17 | | |
|  | | | |

1. [4 marks]

Complete the following conversions, simplifying fractions when possible.

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percent |
|  |  |  |
|  |  | 80% |
|  | 0.95 |  |
|  | 0.125 |  |
|  |  |  |
|  |  | 8% |
|  | 0.025 |  |

2. [1 mark]

If 2% of an amount is $18, how much is the original amount?

3. [2, 1 marks]

Jenna’s salary of $45000 is to be increased by 15%.

1. How much is the pay rise?

b) What will her new salary be?

4. [1, 2 marks]

John purchased a guitar for $2000.00 and sold it for $2200.00

1. How much profit did he make?
2. Calculate his percentage profit.

5. [2 marks]

Penny, the plum seller, normally sells her plums for $16.00/box. Penny decided to discount them by 25%. Calculate the sale price.

6. [1, 1 marks]

Give worded definitions for the following financial terms:

i) Per annum:

ii) Principal:

7. [2 marks]

Sally showed the following calculations for an $8000 investment earning simple interest @ 2.2 % p.a. for 4 years. Determine the error(s) in Sally’s mathematics calculations, making necessary corrections.