**ELEMENT 1: NUMERACY FOR BUSINESS**

**Learning Outcome 1: ACTIVITY 1**

Solve the following:

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**Learning Outcome 1: ACTIVITY 2**

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| When you multiply a positive number by another positive number, is the result positive or negative? |

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**Learning Outcome 1: ACTIVITY 3**

Classify the following as proper, improper and mixed fractions.

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**Learning Outcome 1: ACTIVITY 4**

Solve the following:

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**Learning Outcome 1: ACTIVITY 5**

Give two examples of each of the following:

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| Equivalent fractions |  |
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| Recurring decimals |  |
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**Learning Outcome 1: ACTIVITY 6**

Convert the following fractions into decimals.

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**Learning Outcome 1: ACTIVITY 7**

Solve and express your answers as a fraction and a decimal to two decimal places.

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**Learning Outcome 1: ACTIVITY 8**

Express the following in the standard form 

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| 4562.3 where  |  |
| 2,893,000,000 where  |  |
| 623.54 where  |  |
| 875.23 where  |  |

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**Learning Outcome 1: ACTIVITY 9**

Express the following numbers in full.

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**Learning Outcome 1: ACTIVITY 10**

Express the following as percentages.

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**Learning Outcome 1: ACTIVITY 11**

Express the following as fractions.

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**Learning Outcome 1: ACTIVITY 12**

Solve the following question:

In a class of 150 students, 70% have opted for business statistics, 50% students study economics. How many students study both the subjects?

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**Learning Outcome 1: ACTIVITY 13**

Solve the following.

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| Express 45 minutes as a percentage of an hour |  |
| Express 750 grams as a percentage of 700 kilograms |  |
| Express 240 minutes as a percentage of an hour |  |

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**Learning Outcome 1: ACTIVITY 14**

Solve the following question:

Carole pays a rent of $2000 per month. The landlord decides to increase to rent to $2300 per month from August. Calculate the percentage increase in the rent that Carole will pay from August?

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**Learning Outcome 1: ACTIVITY 15**

Express the following in the simplest form of the ratio.

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| 20 is to 60 |  |
| 55 is to 220 |  |
| 90 is to 75 |  |

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**Learning Outcome 1: ACTIVITY 16**

Solve the following.

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| Divide 360 in the ratio of 3:2:1 |  |
| Divide 4500 in the ratio 6: 5:4 |  |
| If A, B and C share profits in the ratio 2: 3: 4, what is B’s share if the profit of the business is $36000? |  |

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**Learning Outcome 1: ACTIVITY 17**

Chao and Min enter into partnership sharing profits and losses in the ratio 2: 3. Lynn joins the partnership and the partners decide to share the profit equally.

The partnership makes a profit of $30000. What will be difference in the shares of Chao’s profit before and after Lynn’s admission to the partnership?

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**Learning Outcome 1: ACTIVITY 18**

Solve the following question.

Aamir had $32000 in cash. He invested 8.5% in stocks and shares and gave 25% to his parents. How much did he invest in stocks and shares? How much did he give to his parents? What is the amount left with him?

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**Learning Outcome 1: ACTIVITY 19**

Find the missing values.

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**Learning Outcome 1: ACTIVITY 20**

Find the missing values.

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**Learning Outcome 1: ACTIVITY 21**

Salman takes a loan for $4500 for 3 years at a rate of 7% rate of simple interest. What is the amount of interest Salman will need to pay after three years?

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**Learning Outcome 1: ACTIVITY 22**

Solve the following question.

Calculate the rate of simple interest Monica should pay if she borrows $8000 for 5 years and only $2800 interest?

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**Learning Outcome 1: ACTIVITY 23**

Noel invests $5000 in a high interest paying bank account. The bank will pay a simple interest at 10% per annum on a six-month basis into this account. After how many years will the total amount in the account double?

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**Learning Outcome 1: ACTIVITY 24**

Which is greater?

1. A sum of money accumulating 3% compound interest for 12 years; or
2. The same sum of money accumulating 6% compound interest for 6 years.

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**Learning Outcome 1: ACTIVITY 25**

What is the present value of receiving $1500 every year if you receive the amount for the next:

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| 6 years and the discount rate is 12% |  |
| 5 years and discount rate is 10% |  |
| 6 years and the discount rate is 10% |  |
| 5 years and the discount rate is 12% |  |

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**Learning Outcome 1: ACTIVITY 26**

A factory purchases a machine for $40,000 in January. The machinery is estimated to have a useful life of 5 years after which it will be sold for $2000. Calculate the rate of depreciation the business should charge every year?

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**Learning Outcome 1: ACTIVITY 27**

Malcolm depreciates his computer at a rate of 35% each year. At the end of 2016 the value of the computer was $5740. Work out the value of the computer at the end of 2014 based on reducing balance method?

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**Learning Outcome 1: ACTIVITY 28**

Jesse bought a new car. She depreciates the car at 10% using the reducing balance method.

After how many years will the value of her car be less than 50% of the original value?

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**Learning Outcome 1: ACTIVITY 29**

Jonathan is paid $5 per unit he manufactures in addition of $1000 every month. In December Jonathan manufactured 150 units. The employer deducted $150 towards taxation and $40 towards pension contributions from the gross amount. Work out the amount that Jonathan received in December?

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**Learning Outcome 1: ACTIVITY 30**

Solve the following question.

Atul gives a cash discount of 3% to his credit customers who pay within 15 days of purchase. Shahana bought goods for $1500 from Atul on 3 April and settled her account on 10 April. Calculate how much discount she received?

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**Learning Outcome 1: ACTIVITY 31**

Solve the following question.

If 1$ = 0.931 Euros, what is the value of 100 Euros in $?

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