**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Formative**

**SLO: ( M -08 - A -11)** Calculate direct and inverse and compound proportion and solve real -world word problems related to direct, inverse and compound proportion.

**Type of Task:** MCQ

**Level of SLO:** Knowledge

**Task:** The cost of 8 bags of cement is Rs 5000. The cost of 5 bags is? **(01) Mark**

1. Rs 8000 (B) Rs 3125 (C) Rs 250 (D) Rs 3000

 **Level of Item:** Knowledge

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| Option (B) Rs 3125 is correct. | Direct proportion |  01 Mark |

**Name and Signature of Developer**

**Uzma Nazir**

**Reviewer Comments:**

**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Formative**

**SLO: ( M -08 - A -11)** Calculate direct and inverse and compound proportion and solve real -world word problems related to direct, inverse and compound proportion. (Using table, equation, and graph).

**Type of Task:** Constructed response

**Level of SLO:** Application

**Task:** 10 men can lay a road 75 Km in 5 days. In how many days can 15 men lay a round of 45 Km long? **(05) Marks**

 **Level of Item:** Application

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| Days Men Km5 10 75X 15 45 | 1. Direct and inverse proportion
2. Calculations/ simplify
3. Answer
 | 1. Marks

 02 Marks  01 Mark |

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**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Formative**

**SLO: (M -08 - A -12)** Explain and calculate profit percentage, loss percentage and discount.

**Type of Task:** Constructed response

**Level of SLO:** Comprehension

**Task:** Article of C.P Rs. 2000 is sold to a person A at a profit of B S.P Rs. 2300. What is the profit percentage? **(05) Marks**

 **Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
|  | Data collectionFormulaCalculation | 01 Mark01 Mark03 Mark |

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**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Summative**

**SLO: (M -08 - A -12)** Explain and calculate profit percentage, loss percentage and discount.

**Type of Task:** Constructed response

**Level of SLO:** Comprehension

**Task:** Asma bought a shope for Rs. 3000,000. After one year she sold it to asif at loss of 5 . Find the final sale price. **(05) Marks**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
|  | Data collectionFormulaCalculation | 01 Mark01 Mark03 Marks |

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**Template for Essay Type Item**

**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Formative**

**SLO: (M -08 - A -13)** Explain and calculate profit/markup, principal amount, and markup rate.

**Type of Task:** Constructed response

**Level of SLO:** Comprehension

**Task:** Find Profit/markup and Amount? If P=Rs. 1200, R=8, T= 4 years. **(05) Marks**

**Level of Item:** Comprehension

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
|  | Data collectionFormulaCalculation | 01 Mark01 Mark03 Marks |

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**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Formative**

**SLO: (M -08 - A -14)** Explain insurance, partnership and inheritance.

**Type of Task:** MCQ

**Level of SLO:** Knowledge

**Task:** Agreement between insurer and a company for a certain amount or vehicle. **(01) Mark**

 (A) Inheritance (B) Insurance (C) Partnership and Insurance (D) Partnership

 **Level of Item:** Knowledge

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| Option (B) Insurance is correct. | Differentiate b/W |  01 Marks |

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**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Formative**

**SLO: (M -08 - A -14)** Explain insurance, partnership and inheritance.

**Type of Task:** MCQ

**Level of SLO:** Knowledge

**Task:** A person died leaving the property of worth. Divisor of his property among his mother widow, two sons and three daughters is related to.

 (A) Inheritance (B) Insurance (C) Inheritance and Insurance (D) Partnership

 **Level of Item:** Knowledge

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
| Option (A) Inheritance is correct. | Differentiate b/W |  01 Mark |

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**Uzma Nazir**

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**Subject: Mathematics**

**Domain: A-Numbers and Operations**

**Grade: 8**

**Unit: 4. Financial Arithmetic**

**Type of Assessment: Formative**

**SLO: (M -08 - A -15)** Solve real world word problems involving profit %, loss %, discount, profit, markup, insurance, partnership and inheritance.

**Type of Task:** Constructed response

**Level of SLO:** Application

**Task:** What is the marked price of a motor cycle which a retailer sells to Saleem for Rs. 125000 with 20 discount? **(05) Marks**

**Level of Item:** Application

|  |  |  |
| --- | --- | --- |
| **Expected Response** | **Skill Observed** | **Score** |
|  | Data collectionFormulaCalculation | 01 Mark01 Mark03 Mark |

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