**Math Grade 6**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Formative**

[SLO: M -06 - A - 05] Recognize, identify and represent integers (positive, negative and neutral integers) and their absolute or numerical value.

Type of Task: MCQ

Level of SLO: Knowledge

Maximum Marks (01)

Task: 

**Options**

**A**) 

B) 

C) 

D) 

**Answer: C**

**Reason for Choosing Distracter:** All distracters show comparison.

**Name and Signature of Developer**

1. Dr Khalid Mahmood
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**Reviewer Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Formative**

[SLO: M -06 - A - 05] Recognize, identify and represent integers (positive, negative and neutral integers) and their absolute or numerical value.

Type of Task: MCQ

Level of SLO: Knowledge

Maximum Marks (01)

Task:  is equal to:

**Options**

**A**) 

B) 

C) 

D) 

**Answer: B**

**Reason for Choosing Distracter:** Mostly distracters are very close to correct answer.

**Name and Signature of Developer**

1. Dr Khalid Mahmood
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**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Summative**

[SLO: M -06 - A - 05] Recognize, identify and represent integers (positive, negative and neutral integers) and their absolute or numerical value.

Type of Task: Extended response

Level of SLO: Comprehension

Task: Represent on number line.

Maximum Marks: 5

Level of Item: Comprehension

**Expected Response:** **Skill Observed Score**

Given integers: 

Representation of integers on number line.

Red dots show placement of integers.

One mark for one integer 05

-1

4

3

2

1

0

-3

-2

7

5

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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Formative**

[SLO: M -06 - A - 06] Arrange a given list of integers and their absolute value in ascending and descending order.

Type of Task: MCQ

Level of SLO: Knowledge

Maximum Marks (01)

Task: After arranging integers  in ascending order, we get:

**Options**

**A**) 

B) 

C) 

D) 

**Answer: C**

**Reason for Choosing Distracter:** One option of distracter shows descending order. Other options show various combinations.

**Name and Signature of Developer**

1. Dr Khalid Mahmood
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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Formative**

[SLO: M -06 - A - 06] Arrange a given list of integers and their absolute value in ascending and descending order.

Type of Task: MCQ

Level of SLO: Knowledge

Maximum Marks (01)

Task: Which of the following options show descending order of integers  ?

**Options**

**A**) 

B) 

C) 

D) 

**Answer: A**

**Reason for Choosing Distracter:** One option of distracter shows ascending order. Other options show various combinations.

**Name and Signature of Developer**

1. Dr Khalid Mahmood
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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Formative**

[SLO: M -06 - A -07] Add and subtract up to - 2 -digit like and unlike integers and verify commutative and associative laws (where applicable).

Type of Task: MCQ

Level of SLO: Knowledge

Maximum Marks (01)

Task: 

**Options**

**A**) 

B) 

C) 

D) 

**Answer: D**

**Reason for Choosing Distracter:** Results can be obtained by adding or subtracting the integers.

**Name and Signature of Developer**

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**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Summative**

[SLO: M -06 - A -07] Add and subtract up to - 2 -digit like and unlike integers and verify commutative and associative laws (where applicable).

Type of Task: Extended response

Level of SLO: Comprehension

Task: If *a* = 4, *b* = and c = 3 then verify associative law of addition.

Maximum Marks: 5

Level of Item: Comprehension

**Expected Response:** **Skill Observed Score**

Associative law of addition

(a + b) + c = a + (b + c)

L. H. S = (a + b) + c

= (4 + (-5)) + 3

 = (4 – 5) + 3

= -1 + 3 = 2

R. H. S = a + (b + c)

= 4 + (-5 + 3)

 = 4 – 2 = 2

LHS = RHS

Therefore, (a + b) + c = a + (b + c)

Finding LHS 02

 Finding RHS 02

 Proving LHS = RHS 01

**Name and Signature of Developer**

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**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Summative**

[SLO: M -06 - A -08] Multiply up to 2 - digit like and unlike integers and verify commutative, associative and distributive laws.

Type of Task: Extended response

Level of SLO: Comprehension

Task: If *a* = 5, *b* = and c =  then verify distributive law of multiplication over addition.

Maximum Marks: 5

Level of Item: Comprehension

**Expected Response:** **Skill Observed Score**

Associative law of addition

a (b + c) = ab + ac

L. H. S = a (b + c)

= 5 (() + ())

= 5 ()

= 5 × () = – 45

R. H. S = ab + ac

= 5 × () + 5 × ()

= – 25 – 20 = – 45

LHS = RHS

Therefore, a (b + c) = ab + ac

Finding LHS 02

 Finding RHS 02

 Proving LHS = RHS 01

**Name and Signature of Developer**

1. Dr Khalid Mahmood
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**Name and Signature of Reviewer**

**Template for Multiple Choice Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Summative**

[SLO: M -06 - A -09] -Divide like and unlike integers.

Type of Task: MCQ

Level of SLO: Knowledge

Maximum Marks (01)

Task: 

**Options**

**A**) 

B) 

C) 

D) 

**Answer: A**

**Reason for Choosing Distracter:** Results are obtained by adding, multiplying and dividing the integers.

**Name and Signature of Developer**

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**Reviewer Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name and Signature of Reviewer**

**Template for Essay Type Item**

**Subject: Mathematics**

**Domain:** A-Numbers and Operations

**Grade: VI**

**Unit 2: Integers**

**Type of Assessment: Summative**

[SLO: M -06 - A -10] Recognize the order of operations and use it to solve mathematical expressions involving whole numbers, decimals, fractions and integers.

Type of Task: Extended response

Level of SLO: Comprehension

Task: Simplify 

Maximum Marks: 5

Level of Item: Comprehension

**Expected Response:** **Skill Observed Score**



**=**  Simplification within brackets02

**=**  Multiplication within bracket 01

= 

=  Multiplication of integers 01

 Addition of integers 01

**Name and Signature of Developer**

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**Name and Signature of Reviewer**