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Quiz Form A

Name _____

Class _____ Date _____ Score _____

Unit I – The Structure of Mathematics Part A – Mathematics as a Language

Lesson 1 – Mathematical Parts of Speech

Tell what part of mathematical speech each of the following is.

1. () _____

2. m _____

3. \neq _____

4. \div _____

5. \square _____

6. 88 _____

7. \cdot _____

8. [] _____

9. $>$ _____

10. 18.7 _____

Quiz Form B

Name _____

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Unit I – The Structure of Mathematics

Part A – Mathematics as a Language

Lesson 1 – Mathematical Parts of Speech

Tell what part of mathematical speech each of the following is.

1. 101.01 _____

2. < _____

3. { } _____

4. ÷ _____

5. 13 _____

6. Δ _____

7. x _____

8. \neq _____

9. - _____

10. () _____

Quiz Form A

Name _____

Class _____ Date _____ Score _____

Unit I – The Structure of Mathematics

Part A – Mathematics as a Language

Lesson 2 – Mathematical Expressions

Tell whether each of the following expressions is an open phrase, closed phrase, open sentence, or closed sentence.

1. $5 - 3 = 6 \cdot 2$ _____

2. $9x + 4$ _____

3. $\sqrt{y+4}$ _____

4. $x - 6 = 3$ _____

5. $6y + 2 = 50$ _____

6. $9 - 6 = 3$ _____

7. $3 \cdot 7 + 6$ _____

8. $(9 - 5)8$ _____

Unit I, Part A, Lesson 2, Quiz Form A
– Continued –

In the following exercises, take the appropriate mathematical action with each expression. If you need a domain, use {4, 5, 6}. If you need a replacement set, use {10, 11, 12}.

9. $2x + x$ _____

10. $5x + 9 = 59$ _____

11. $\frac{13+9}{2} > 5 \cdot 3$ _____

12. $\frac{x}{2} < 13$ _____

Quiz Form B

Name _____

Class _____ Date _____ Score _____

Unit I – The Structure of Mathematics

Part A – Mathematics as a Language

Lesson 2 – Mathematical Expressions

Tell whether each of the following expressions is an open phrase, closed phrase, open sentence, or closed sentence.

1. $(7+2) \cdot 3$ _____

2. $6 \cdot 2 = 7 + 5$ _____

3. $y + 4 = 11$ _____

4. $6x + 2 = 14$ _____

5. $7 - 2 \cdot 3$ _____

6. $2y - 8$ _____

7. $\sqrt{y-3}$ _____

8. $2 + 4 = 7$ _____

Unit I, Part A, Lesson 2, Quiz Form B
- Continued -

In the following exercises, take the appropriate mathematical action with each expression. If you need a domain, use {4, 5, 6}. If you need a replacement set, use {10, 11, 12}.

9. $\frac{x}{2} > 3$ _____

10. $3x - 2$ _____

11. $4x - 3 = 41$ _____

12. $6 \div 2 < \frac{10 - 5}{5}$ _____

Quiz Form A

Name _____

Class _____ Date _____ Score _____

Unit I – The Structure of Mathematics

Part A – Mathematics as a Language

Lesson 3 – Translation of Mathematical Symbols

Translate the following English phrases into expressions with mathematical symbols.

1. x divided by 7, decreased by 2
2. the sum of x and y
3. 15 less than the total of x and y
4. the difference between a and b , multiplied by the product of x and y

Translate the following English sentences into expressions with mathematical symbols.

5. The product of 4 and a number is 20.
6. 14 plus, 3 times a number is 59.
7. 25 is less than the quotient of 9 and x .
8. The sum of 20 and the product of 9 and x is greater than 110.

Quiz Form B

Name _____

Class _____ Date _____ Score _____

Unit I – The Structure of Mathematics

Part A – Mathematics as a Language

Lesson 3 – Translation of Mathematical Symbols

Translate the following English phrases into expressions with mathematical symbols.

1. 12 more than the difference of x and y
2. the quotient of 7 and 3
3. 32 greater than the sum of a and b
4. the sum of m and n , multiplied by the quotient of 1 and 2

Translate the following English sentences into expressions with mathematical symbols.

5. 17 is the difference between 63 and a number.
6. 34 is greater than the sum of 7 and y .
7. 81 minus, 4 times a number is 21.
8. The difference of 10 and a number is less than 52.

