NCTM Content Standards Assessment Rubric

Algebra – Drill Sheets

Student's Name: _____ Assignment: _____ Level: _____

	Level 1	Level 2	Level 3	Level 4
Understanding the Algebraic Concepts: Sorting, Patterning, Graphing, Equations and Quantitative Change	• Demonstrates a limited understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change	• Demonstrates a basic understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change	• Demonstrates a good understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change	• Demonstrates a thorough understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change
Applying Appropriate Technique, Tools, and Formulas to Solve Algebraic Problems	• Demonstrates limited ability in using formulas to solve algebraic equations	• Demonstrates some ability in using formulas to solve algebraic equations	• Demonstrates satisfactory ability in using formulas to solve algebraic equations	• Demonstrates strong ability in using formulas to solve algebraic equations

STRENGTHS:

WEAKNESSES:

NEXT STEPS:

SAMPLE

8 Minutes

12a) Which equation below is correct? _____

i. 8 + 12 = 8 + 6 + 6   ii. 8 + 12 = 8 + 10 + 4

iii. 8 + 12 = 8 + 4 + 10   iv. 8 + 12 = 4 + 4 + 2 + 8

b) Look at this pattern:

How would you show this pattern using letters?

i. ABB   ii. ABA   iii. AAB   iv. BAB

c) Put the following pictures in order from biggest to smallest.

a   b   c   d

d) Write the related addition fact for the following:
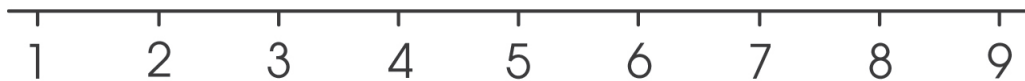
Ex: 2 + 5 = 7   5 + 2 = 7

i) 9 + 6 = 15 _____

ii) 8 + 3 = 11 _____

NAME: _____

Review B

a) John is learning to count by twos. On the number line below, starting with the number 2, count by twos by marking these points.

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1    2    3    4    5    6    7    8    9
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b) Complete the following skip counting chart by filling in the missing numbers.

| 6 | | 10 | | | 16 | | | | | 26 | |

c) Solve the following problems.

i) 7 + ___ = 12   ii) 9 + 9 = ___   iii) 6 + ___ = 15

iv) 14 – 6 = ___   v) 9 + ___ = 19   vi) ___ + 12 = 21

d) Choose > = or <:

i) 7 ☐ 9   ii) 22 ☐ 15   iii) 10 ☐ 10

e) An increasing pattern is shown. What are the next four terms in the pattern?

7, 14, 21, 28, 35, ___, ___, ___, ___

Patterning, Sequencing, Hundreds Chart

a) Complete the patterns.

b) What are the missing numbers?

C) This is part of the hundreds chart. Fill in the missing numbers.

SAMPLE

d) Count forward by _____'s.