

NCTM Content Standards Assessment Rubric

Algebra – Drill Sheets

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

Level 1	Level 2	Level 3	Level 4
<p>Understanding the Algebraic Concepts: Sorting, Patterning, Graphing, Equations and Quantitative Change</p>	<ul style="list-style-type: none"> Demonstrates a limited understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change 	<ul style="list-style-type: none"> Demonstrates a basic understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change 	<ul style="list-style-type: none"> Demonstrates a thorough understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change
<p>Applying Appropriate Technique, Tools, and Formulas to Solve Algebraic Problems</p>	<ul style="list-style-type: none"> Demonstrates limited ability in using formulas to solve algebraic equations 	<ul style="list-style-type: none"> Demonstrates satisfactory ability in using formulas to solve algebraic equations 	<ul style="list-style-type: none"> Demonstrates strong ability in using formulas to solve algebraic equations

SAMPLE

NEXT STEPS:

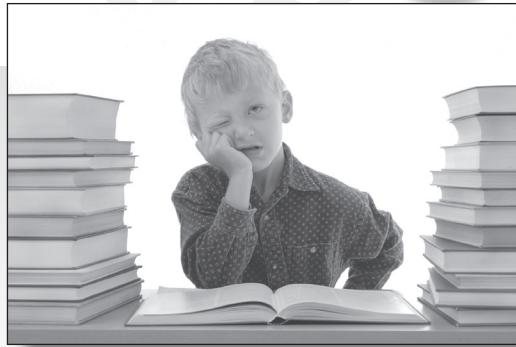
WEAKNESSES:

STRENGTHS:

NAME: _____

 Warm-Up Drill Sheet # 6
**15a) Solve the following problems:**

- i) Since $3 + 6 = 9$, then $9 - 3 = \underline{\hspace{2cm}}$
- ii) Since $4 + 8 = 12$, then $12 - 4 = \underline{\hspace{2cm}}$
- iii) Since $9 + 7 = 16$, then $16 - 9 = \underline{\hspace{2cm}}$
- iv) Since $12 + 8 = 20$, then $20 - 12 = \underline{\hspace{2cm}}$

**b) Which is another way to show 5×3 ?**

- i. $3 + 3 + 3$
- ii. $5 + 3 + 3$
- iii. $3 + 3 + 3 + 3 + 3$
- iv. $3 + 3$

c) Look at the following pattern:**What coin comes next in this pattern?**

- i.
- ii.
- iii.

Reflection

Jason has 16 books. What is one way to put his books into equal groups?

- i. 3 groups of 5
- ii. 4 groups of 4
- iii. 4 groups of 6
- iv. 2 groups of 4



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Review A

a) Fill in the charts below with the missing numbers.

i)

4		6				9				
---	--	---	--	--	--	---	--	--	--	--

ii)

11				15						20
----	--	--	--	----	--	--	--	--	--	----

b) Choose > = or <:

i) $3 \square 3$

ii) $5 \square 6$

c) Complete the pattern:



d) Add:

corn	corn	corn	corn	+	pumpkin	pumpkin	pumpkin	= _____
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e) Place the following numbers in the correct order by size from smallest to largest.

10

1

6

4

8

1st	
-----	--

2nd	
-----	--

3rd	
-----	--

4th	
-----	--

5th	
-----	--

Even Numbers, Equations, Patterning

a) Which of the following numbers are even?

_____ _____ _____

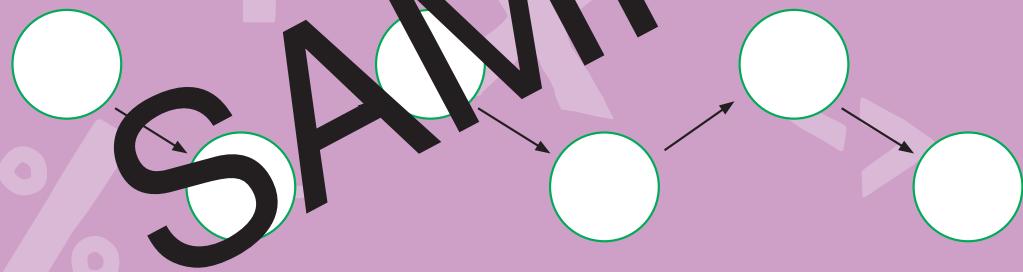
b) Half of is

_____ + _____ = _____
_____ + _____ = _____

c) How do you make the number _____?

_____ + _____ = _____
_____ + _____ = _____

d) Complete the pattern.



e) Since _____ + _____ = _____, then _____ - _____ = _____

f) Since _____ + _____ = _____, then _____ - _____ = _____

g) Solve each equation.

i) _____ + a = _____ a = ii) _____ - b = _____ b = _____