

NCTM Content Standards Assessment Rubric



Algebra – Drill Sheets

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

	Level 4	Level 3	Level 2	Level 1
<p>Understanding the Algebraic Concepts: Sorting, Patterning, Graphing, Equations and Quantitative Change</p>	<ul style="list-style-type: none"> • Demonstrates a thorough understanding of Sorting, Patterning, Graphing, Equations and Quantitative Change 	<ul style="list-style-type: none"> • Demonstrates a good 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 limited 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 strong 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 some ability in using formulas to solve algebraic equations 	<ul style="list-style-type: none"> • Demonstrates limited ability in using formulas to solve algebraic equations

SAMPLE

NEXT STEPS:

WEAKNESSES:

STRENGTHS:



5a) Are the following statements true?

Ex: $5 + 5 = 7 + 3$ $10 = 10$



i) $6 + 3 + 2 = 5 + 5 + 1$

Yes No

ii) $9 + 3 + 3 = 6 + 1 + 7$

Yes No

b) Write a plus (+) or a minus (-) sign in the square to make the number sentence true.

Ex: $10 \square 2 = 8$

i) $5 \square 8 = 13$

ii) $15 \square 8 = 7$

iii) $25 \square 2 = 27$

c) Write the missing numbers in the chart.

9			12					
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d) An increasing pattern is shown. What are the next four terms in the pattern?

6, 12, 18, 24, 30, _____, _____, _____, _____



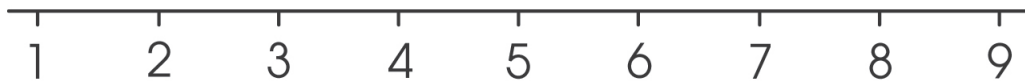
Jenny collects dimes. Each day this week she saved 2 more dimes than she did the day before. On Monday she saved 3 dimes. How many dimes did she save on Thursday?

- i. 8 dimes ii. 9 dimes iii. 10 dimes iv. 11 dimes



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.



b) Complete the following skip counting chart by filling in the missing numbers.

6		10			16				26	
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c) Solve the following problems

i) $7 + \underline{\quad} = 12$

ii) $9 + 9 = \underline{\quad}$

iii) $6 + \underline{\quad} = 15$

iv) $14 - 6 = \underline{\quad}$

v) $9 + \underline{\quad} = 19$

vi) $\underline{\quad} + 12 = 21$

d) Choose $>$ = or $<$:

i) $7 \square 9$

ii) $22 \square 15$

iii) $10 \square 10$

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

7, 14, 21, 28, 35, _____, _____, _____, _____

Greater and Lower Than, Equations, Facts



a) Choose $>$ = or $<$:

i) $\frac{\quad}{\quad}$

ii) $\frac{\quad}{\quad}$

iii) $\frac{\quad}{\quad}$

iv) $\frac{\quad}{\quad}$

b) Complete the following:

i) $\frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$

ii) $\frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$

iii) $\frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad}$

iv) $\frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad}$

c) In the boxes below, put facts that add up to $\frac{\quad}{\quad}$.

SAMPLE

$\frac{\quad}{\quad}$

Write the related addition fact for the following:

d) $\frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$ _____