TESTED ITEMS – Math 8

District Assessment 1

Chapters Covered: 1 - 2

Skills Tested:

1. Evaluate variable expression through numerical substitution
2. Recognize and use commutative, associative and distributive properties of addition and multiplication (numbers and variables)
3. Identify inverses and identities for addition and multiplication
4. Solve one-step linear equations
5. Solve two-step linear equations
6. Add and subtract to simplify polynomial expressions
7. Properties: distributive 3(2+4)= (3x2) + (3x4)
8. Solve one-step linear inequalities
9. Solve two-step linear inequalities

District Assessment 2

Chapters Covered: 3 - 5

Skills Tested:

1. Write linear equations and inequalities
2. Determine the slope of a line
3. Analyze transformations and relate properties to similarity and congruence (translation)
4. Analyze transformations and relate properties to similarity and congruence (reflection)
5. Analyze transformations and relate properties to similarity and congruence (rotation)
6. Analyze transformations and relate properties to similarity and congruence (dilation)
7. Recognize and name rational numbers
8. Solve for a variable in a formula with one step
9. Use formula to find perimeter of common and complex figures
10. Use ratio and proportion to determine the unknown sides of similar triangles

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District Assessment 3

Chapters Covered: 6 - 8

Skills Tested:

1. Use and determine percents including those greater than 100 and less than 1

2. Calculate percent of change (sales tax, discounts, mark-up)

3. Write numbers in scientific notation

4. Recognize angle relationships

5. Determine angle measures using angle relationships

6. Classify angle pairs

7. Identify and use relationships among parts of complex 2D and 3D figures (e.g.-parallel sides, congruent faces)

8. Identify and use properties of subsets of polygons

9. Determine area of circle, triangle, parallelograms and trapezoids

10. Determine the circumference of a circle

11. Determine area of an irregular figure

District Assessment 4

Chapters Covered: 9 – 12

Skills Tested:

1. Identify and use relationships among parts of complex 2D and 3D figures (e.g.-parallel sides, congruent faces)

2. Select an appropriate method of displaying data (bar, box & whiskers, circle, line, stem & leaf,)

3. Recognize that data can be manipulated

4. Use logical reasoning (inductive and deductive)

5. Design various methods to gather data

6. Use models/simulations to generate data

7. Express sequences algebraically

8. Given an arithmetic or geometric sequence, find the nth term of the sequence

9. Add and subtract to simplify polynomial expressions

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