Mathematics—Sample Content Levels 14 through 15



Ms. Sanchez has 6 batteries. She buys 3 boxes that each contain 12 batteries. Then, she puts 4 batteries in each of 3 remote controls. How many batteries does Ms. Sanchez have left?

- 8 \circ
- 0 14
- 0 28
- 30

This item assesses:

M.11.2 – Demonstrate proficiency in computation procedures, solve real-world computation problems, apply a variety of estimation strategies, and determine reasonableness of results: computation

Thinking Skill - Organize Information-Represent: change for, but not substance, of

4.OA.3 - Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

NO CALCULATOR

A bag of potatoes weighs 5 pounds. How many ounces does the bag of potatoes weigh?

- 16 0
- 21 \circ
- 80
- 0 105

This item assesses:

M.13.18 – Demonstrate an understanding of measurement systems, units, and tools by describing, calculating, or estimating size, location, and time; by using the concepts of perimeter, area, volume, capacity, weight, and mass; and by identifying appropriate degrees of accuracy: convert measurement units

Thinking Skill – Organize Information—Represent: change for, but not substance, of information

4.MD.1 – Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.

CALCULATOR

Which three expressions have the same value as $3 \times 4 + 2 \times 5$?

$$\bigcirc$$
 (3 × 4 + 2) × 5

$$\bigcirc$$
 3 × (4 + 2 × 5)

$$\bigcirc$$
 3 × (4 + 2) × 5

$$0 3 \times 4 + (2 \times 5)$$

$$\bigcirc$$
 $(3 \times 4) + 2 \times 5$

This item assesses:

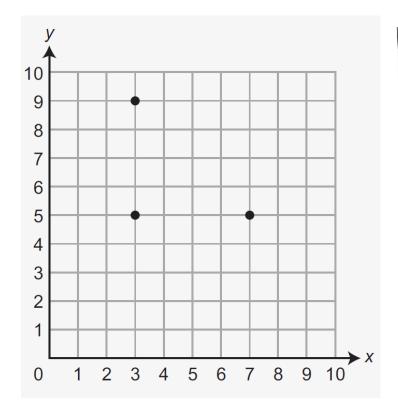
M.12.3 – Demonstrate an understanding of the properties and relationships of operations, relate mathematical representations to problem situations, and apply operational processes to solve problems: order of operations

Thinking Skill – Organize Information—Represent: change for, but not substance, of information

5.0A.1- Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

NO CALCULATOR

Three vertices of a square are plotted on a coordinate plane.



This item assesses:

M.14.7 – Demonstrate spatial sense and an understanding of geometry by visualizing and identifying two- and three-dimensional objects, classifying shapes, recognizing symmetry, using transformations, applying geometric formulas, and evaluating properties of geometric figures: coordinate geometry

Thinking Skill – Analyze Information—Identify Attributes and Components: determine characteristics or parts of something

5.G.2 – Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.

CALCULATOR

What ordered pair represents the fourth vertex of the square?

- 0 (3, 3)
- **(7, 9)**
- 0 (9, 7)
- 0 (9, 9)