

Mathematics—Sample Content Levels 10 through 11



SAY Anthony picks the flowers shown. How many flowers does Anthony pick? Fill in the circle next to the number of flowers Anthony picks.

Calculators are not permitted on the Mathematics test for Levels 10 or 11.



- ☐ 5
- ☐ 6
- ☒ 7
- ☐ 8

This item assesses:

M.10.1 – Demonstrate an understanding of numbers, number sense, and number theory by ordering numbers, representing numbers in equivalent forms, identifying relationships, interpreting numbers in real-world situations, and applying number concepts in real-world situations: counting

Thinking Skill – Gather Information—Observe: obtain information through observation

K.CC.5 – Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects.

SAY *Maria walks dogs to earn money. Last week, Maria walked 3 small dogs, 5 medium dogs, and 7 large dogs. How many dogs did Maria walk last week? Mark your answer.*

- ☐ 8
- ☐ 12
- ☐ 14
- ☒ 15

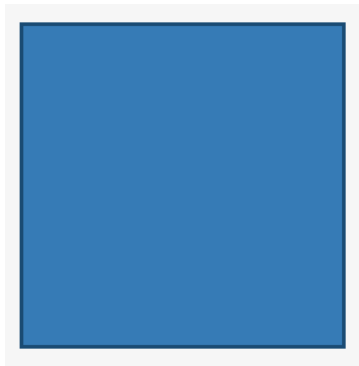
This item assesses:

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 in context

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

1.OA.2 – Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

SAY *A square is shown. Which statement does not help explain why the shape is a square? Mark your answer.*



- ☐ The shape has 4 sides.
- ☒ The shape is colored blue.
- ☐ The shape is a closed shape.
- ☐ The sides of the shape are all the same length.

This item assesses:

M.14.1 – 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: plane figure

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

1.G.1 – Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.