

Analyzing Changes to NY State Math Tests
Grade 3—Operations and Algebraic Thinking Domain

SAMPLE A—NEW YORK STATE TEST 2010

3.N.6: Use and explain the commutative property of addition and multiplication.

- 14** Meggie used the expression below to find the total number of flowers in her garden.

$$4 \times 3$$

What is another way to write this expression?

- A** $3 + 4$
- B** 3×4
- C** $4 \times 4 \times 4$
- D** $3 + 3 + 3$

SAMPLE B—NEW YORK STATE TEST 2012-13 SAMPLE ITEM, MULTIPLE-CHOICE

3.OA.6: Understand division as an unknown-factor problem.

If $20 \div n = 5$, then $n \times 5 = 20$.

What is n ?

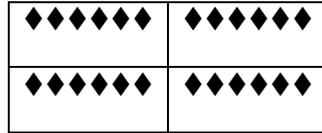
- a. 4
- b. 5
- c. 8
- d. 15

SAMPLE C—NEW YORK STATE TEST 2012-13 SAMPLE ITEM, OPEN-RESPONSE

3.OA.1: Interpret products of whole numbers...

3.OA.2: Interpret whole-number quotients of whole numbers...

13. What number sentence can be represented by the picture below?



Use the blanks to create your number sentence.

a. _____ × _____ = _____

b. Put the star's below into eight equally sized groups and write an equation to represent the picture.



Answer: _____