

NAME _____ DATE _____

Countdown: 11 Weeks

SCORE _____

1. In the table shown, each rule's input is the previous rule's output. 4.OA.5, 4.OA.3

Part A: Complete the table by writing in the missing values.

Input	Add 3	Subtract 5	Multiply by 5
5	8	3	15
6	9	4	20
15	18	13	65
8	11	6	30

Part B: If n is the input, write an equation that can be used to find p , the output.

$(n + 3 - 5) \times 5 = p$

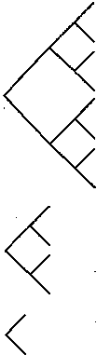
2. A scientist is studying an ant infestation at a local building site. On the first day, he observes 6 ants along the base of the entryway. On the second day, he observes 20 ants. On the third, he observes 24 ants. This pattern continues for the rest of the week. Indicate whether each statement is true or false. 4.OA.5

True False

- The number of ants is always a multiple of 4.
- The rule for the number of ants seen the next day is "add 8".
- The number of ants is always a multiple of 8.
- The number of ants is always a multiple of 2.
- The total number of ants for the week is a multiple of 4.

THINK SMART FOR SBAC
On the actual test, you may be asked to click into the boxes to shade them. In this book, you will instead shade the boxes using a pencil.

3. How many branches will be at the bottom of the 7th figure in the pattern shown? 4.OA.5



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4. A large pot of water contains 64 cups of water. As the water boils, the amount of water in the pot decreases. After 10 minutes, there are 48 cups left. After another 10 minutes there are only 32 cups left. If this pattern continues, circle the number of minutes it will take until all of the water is gone. 4.OA.5

- A. 4 minutes C. 30 minutes
B. 40 minutes D. 50 minutes

5. A store is putting together packages of school supplies to donate to a local school. The table shows the number of each type of each supply they have to donate. 4.NBT.6, 4.OA.3

Type of Supply	Number of Supply
Pencils	172
Pens	161
Packs of Paper	45
Book Bags	31

Part A: How many boxes can be packed if each package must contain 10 writing utensils (pens or pencils)?

33 packages

Part B: If each package will be put into a book bag, are there enough book bags to fit your answer from Part A? Explain.

No. Sample answer: There are only 31 book bags, so the store cannot make 33 packages.