

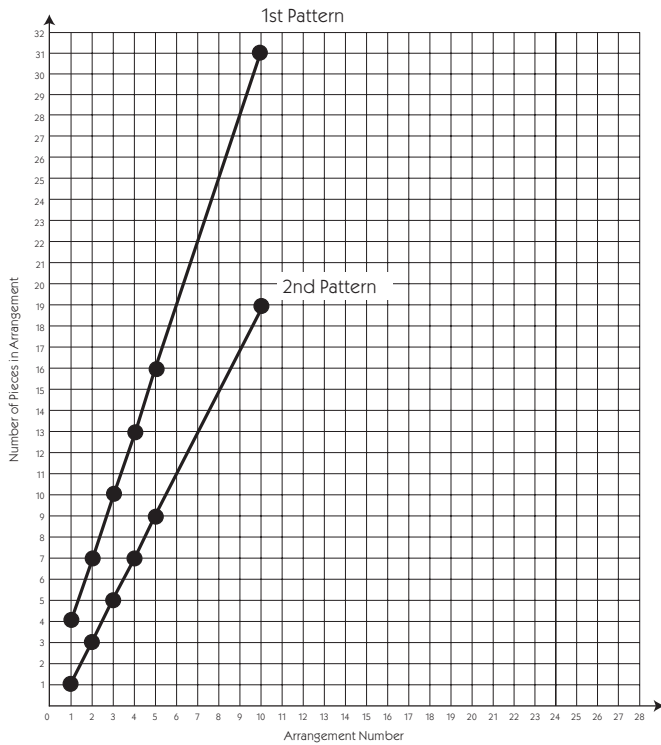


ANSWER KEY

Session 3 (cont.)

Home Connection 51, pages 155–159, Describing Tile Patterns (cont.)

3



Session 4

Blacklines A 7.1–7.3, Unit Seven Pre-Assessment

1



2 a 41

b Students' work will vary. See Session 4 for examples.

3 a the 27th arrangement

b Students' work will vary. Examples:

example 1:

$$55 - 3 = 52$$

$$52 \div 2 = 26$$

$$26 + 1 = 27$$

example 2:

Some students may keep extending the arrangement until it includes 55 pieces and then count the number of triangles to determine the arrangement number.

4 Students' responses will vary. Examples:

example 1:

You take the arrangement number and subtract 1.

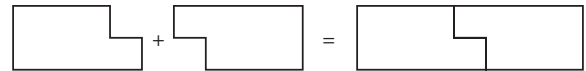
Then multiply that number by 2 and add 3.

example 2:

$$\text{Number of pieces in arrangement } n = (n - 1) \times 2 + 3$$

5 a yes

b While students' explanations will vary and most will probably cite specific examples to support their answer in part a, some might make generalizations like the example below:



6 a 48 inches

b 5 inches taller

c 10 inches

d If Eric continued to grow 2 inches per year, he would be 62 inches tall in 2008.

e Students' observations will vary widely, and many will not make observations about the boy's growth at this point in the unit. Some examples of observations about the boys' growth and height include:

- Eric grew at a constant rate of 2 inches per year.
- Overall Mark grew faster than Eric.
- Mark grew slower between 2002 and 2003 than he did between the other years.
- Mark grew 10 inches in 3 years, but Eric grew 6 inches in 3 years.