

Practice 3-8

Act It Out

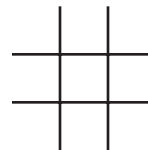
Solve by acting out the problem.

1. A house-number manufacturer sold numbers to retail stores for \$.09 per digit. A hardware store bought enough digits for two of every house number from 1 to 999. How many digits did the store purchase for house numbers:

a. 1–9 _____ b. 10–99 _____ c. 100–999 _____

d. Find the total cost of the house numbers. _____

2. A tic-tac-toe diagram uses 2 vertical lines and 2 horizontal lines to create 9 spaces. How many spaces can you create using:



a. 1 vertical line and 1 horizontal line _____

b. 2 vertical lines and 1 horizontal line _____

c. 3 vertical lines and 3 horizontal lines _____

d. 4 vertical lines and 5 horizontal lines _____

e. 17 vertical lines and 29 horizontal lines _____

3. Each side of each triangle in the figure has length 1 cm. The perimeter (the distance around) the first triangle is 3 cm. Find the perimeter of the figure formed by connecting:



a. 2 triangles _____

b. 3 triangles _____

c. 4 triangles _____

d. 50 triangles _____

Solve using any strategy.

4. At the inauguration, the President was honored with a 21-gun salute. The report from each gunshot lasted 1 s. Four seconds elapsed between shots. How long did the salute last?

5. Bernie began building a model airplane on day 7 of his summer vacation and finished building it on day 65. He worked on the plane each day. How many days did it take?

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