

11-1 Practice

7MR2.5, 7SDAP1.1

Problem-Solving Investigation: Make a Table

Mixed Problem Solving

Use the make a table strategy to solve Exercises 1 and 2.

- 1. LIZARDS** Biologists recorded the lengths of lizards they found in the desert. About what percent of the lizard lengths are from 3.0 to 6.9 inches?

Lengths of Lizards Found		
Length (in.)	Tally	Frequency
1.0–1.9	3	3
2.0–2.9	4	4
3.0–3.9	5	5
4.0–4.9	4	4
5.0–5.9	4	4
6.0–6.9	2	2
7.0–7.9	2	2

- 2. BOOKS** The list below shows book prices for various books at a used book sale. Organize the data in a table using intervals \$1.00–\$1.99, \$2.00–\$2.99, \$3.00–\$3.99, and so on. What is the most common interval of book prices?

\$3.78	\$1.05	\$6.52	\$1.65	\$4.99	\$2.83
\$1.52	\$4.85	\$4.64	\$5.10	\$3.09	\$1.90
\$6.29	\$3.72	\$6.50	\$3.39	\$2.55	\$1.89
\$3.22	\$4.26	\$5.29	\$4.99	\$1.10	\$2.50

Use any strategy to solve Exercises 3 and 4. Some strategies are shown below.

PROBLEM-SOLVING STRATEGIES

- Use the four-step plan.
- Use logical reasoning.
- Act it out.
- Make a table.

- 3. ART FAIR** At the art fair, 95 artists exhibited their work. Of those 95 artists, 25 showed sculptures and 48 showed paintings. If 12 showed both sculptures and paintings, how many artists showed only sculptures or paintings?
- 4. NUMBER CUBE** Jacy tossed a number cube several times and recorded the number shown after each toss. His results are listed below. Find the number that was tossed most frequently.

3	6	1	3	5	3	4	2	6
1	5	4	4	5	6	6	1	4
4	2	5	6	1	1	2	3	6

Select the Operation

For Exercise 5, select the appropriate operation(s) to solve the problem. Justify your selection(s) and solve the problem.

- 5. GEOGRAPHY** Finland has a land area of 117,943 square miles. If the total area of Finland is 130,128 square miles, what percent of Finland's total area is water, to the nearest tenth of a percent?