Multiplica	tion Strategies
Solve the following problems: • Decide whether you nee • Then, decide whether it paper-and-pencil. See th Student Activity Book.	d an exact answer or an estimate. is more efficient to use mental math or the <i>Multiplication Strategies Menu</i> in the
Show all your work with paper an mental math strategies.	d pencil. Be prepared to explain your
 A sailboat can travel about 22 How far can the sailboat trave 	7 miles in 1 hour. el in 6 hours?
 There are 25 crackers in a bo each ate one box of crackers many crackers did the childre altogether? 	x. If 5 children , how m eat
 Mr. Thomas drove for 3 hours without stopping. He drove about 55 miles every hour. About how far did he drive? 	
 The Rodriguez family is havin should have 70 cans of soda. contains 24 cans of soda. Wi 	g a big party. Mrs. Rodriguez knows she Ana buys 3 cases of soda. Each case Il this be enough soda? Why or why not?
5. There are about 22 students i 8 classrooms in the school. A	n each classroom at Smith School. There an bout how many students are in the school?
6. The array below has 6 rows of	f 13 tiles. How many tiles are in the array?
 Maya's array has 7 rows of 5 Whose array has more tiles?) tiles. Ming's array has 7 rows of 46 tiles. How do you know?
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*Answers and/or discussions are included in the lesson.

Student Guide

Multiplication Strategies

Questions 1-11 (SG pp. 161-162)

Strategies will vary.

- 1. 180 miles; About 30 miles \times 6 hours = 180 miles or about 25 miles \times 6 hours = 125 miles
- **2.** 125 crackers; 25 crackers \times 5 children = 125 crackers
- **3.** Between 150 and 180 miles; 50 miles \times 3 hours = 150 miles; 60 miles \times 3 hours = 180 miles.
- **4.** 72 cans; Yes, because 3 cases \times 24 cans = 72 cans
- **5.** About 160 students; 20 students \times 8 classrooms = 160 students
- **6.** 78 tiles; 13 tiles \times 6 rows = 78 tiles
- 7.* Maya has more tiles because Ming has fewer tiles per row and therefore fewer tiles overall.
- **8.** 522 tiles; 9 rows \times 58 tiles = 522 tiles
- **9.** 430 tiles; 5 rows \times 86 tiles = 430 tiles; using a mental strategy: $5 \times 90 = 450$; $5 \times 4 = 20; 450 - 20 = 430$
- **10.*** Anna should have subtracted rather than added. 99 \times 7 should be less than 100 \times 7.
- **II.** Answers will vary.

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