Problem-Solving Practice

Algebra: Write Expressions

OLYMPICS For Exercises 1-4, use the table that shows the number of medals won by each country in the 2008 Summer Olympics.

2008 Summer Olympic Medals					
Country	Medals	Country	Medals	Country	Medals
USA	m	Great Britain	47	France	40
China	100	Australia	a	South Korea	31
Russia	72	Germany	41	Italy	i

- 1. Write an expression to show how many more medals the USA won than Germany. m - 41
- **2.** Write an expression to show how many fewer medals Australia won than Great Britain. 47 - a

3. Write an expression to show how many medals were won by the USA, Australia, and France combined.

m + a + 40

4. The number of medals won by the United States is 26 more than three times the number of medals won by Italy. Write an algebraic expression to represent this statement. 3i + 26

- **5. TRAVEL** Mrs. Guang purchased four airline tickets to Florida. She will also pay a fee of \$55 for an extra piece of luggage. Define a variable and write an expression to represent her total cost of flying to Florida. Let t represent the cost of the ticket: 4t + 55
- **6. MEASUREMENT** There are about 1.6 kilometers in every mile. Write an expression to represent the approximate number of kilometers in m miles. Then use the expression to find the approximate number of kilometers in 5 miles. **1.6***m***; 8 kilometers**