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## 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. $m+\mathbf{a}+40$
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. $3 i+26$
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; $4 t+55$
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. 1.6m; 8 kilometers
