

# Algebra: Write Expressions

## Guided Practice

Define a variable and write each phrase as an algebraic expression.

(Examples 1–4)

1. four times more money than Elliot \_\_\_\_\_
2. half as many pages as George \_\_\_\_\_
3. the width of a box that is 4 inches less than the length \_\_\_\_\_
4. the cost of 5 CDs and a \$12 DVD \_\_\_\_\_  
\_\_\_\_\_
5. Shoko bought a box of popcorn for \$3.50 and three medium drinks. Define a variable and write an expression to represent the total amount they spent. Then find the total amount if one drink costs \$1.50. (Example 5)  
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## Independent Practice

Define a variable and write each phrase as an algebraic expression.

(Examples 1–4)

1. six feet less than the width  
\_\_\_\_\_
2. 6 hours more per week than Theodore studies  
\_\_\_\_\_
3. six years less than Tracey's age  
\_\_\_\_\_
4. 2 less than one third of the points that the Panthers scored  
\_\_\_\_\_

**Airports** Missouri has 8 major commercial airports. California has 24 major commercial airports.

1. **Alabama has 4 fewer airports than Missouri.**

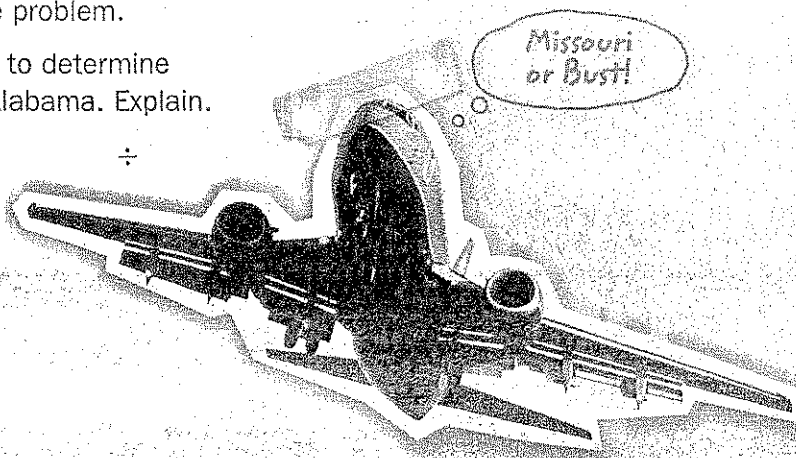
- a. Underline the key math word in the problem.
- b. Circle the operation you would use to determine how many airports are located in Alabama. Explain.

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5. The United States House of Representatives has 35 more members than four times the number of members in the United States Senate. Define a variable and write an expression to represent the number of members in the House of Representatives. Then find the number of members in the House of Representatives, if there are 100 members in the Senate.

(Example 5)

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6. **Multiple Representations** Dani uses the table to help her convert measurements when she is sewing.

Number of feet	3	6	9	12
Number of yards	1	2	3	4

a. **Words** Describe the relationship between the number of feet and the number of yards.

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b. **Symbols** Write an expression for the number of yards in  $f$  feet.

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c. **Numbers** Find the number of yards in 63 feet.

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7. **Be Precise** An inch is equal to about 2.54 centimeters. Write an expression which estimates the number of centimeters in  $x$  inches. Then estimate the number of centimeters in 12 inches.

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