CHAPTER SUMMARY

Animated Algebra my.hrw.com Electronic Function Library

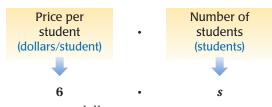
For Your Notebook

BIG IDEAS



Writing and Evaluating Algebraic Expressions

The cost of admission for one student at a planetarium is \$6. You can use a verbal model to write an expression for the total cost of admission for any number of students.



An expression is 6s. Because $\frac{\text{dollars}}{\text{student}} \cdot \text{students} = \text{dollars}$, the expression

produces an answer in dollars. The expression is reasonable.

Using Expressions to Write Equations and Inequalities

You can use symbols to write an equation or inequality that compares the expression 6*s* to another expression.

The total cost of admission to the planetarium for *s* students at a rate of \$6 per student is \$150.

6s = 150 Equation

The total cost of admission to the planetarium for *s* students at a rate of \$6 per student is no more than \$150.

 $6s \le 150$ Inequality

Big Idea 3

Big Idea (2

Representing Functions as Verbal Rules, Equations, Tables, and Graphs

You can use a verbal description, an equation, a table, or a graph to represent a function.

Words The total cost (in dollars) of admission to the planetarium is 6 times the number of students.

| Equation | Table | | Graph | |
|----------|----------|-----------|----------------|------------|
| C = 6s | Input, s | Output, C | C 18 | |
| | 0 | 0 | Cost (dollars) | |
| | 1 | 6 | st (do | |
| | 2 | 12 | . 6 | • |
| | 3 | 18 | 0 | 2 4 |
| | | | 0 | Z Students |