

Chapter 5 Expressions

Lesson 5-1 Algebraic Expressions

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3 Evaluate $\frac{ef}{4}$ if $d = 8$, $e = 3$, $f = 4$, and $g = -1$.

$$\frac{ef}{4} = \frac{3(4)}{4} \quad \text{Replace } e \text{ with 3 and } f \text{ with 4.}$$

$$= \frac{12}{4} \quad \text{Multiply 3 by 4.}$$

$$= 3 \quad \text{Divide.}$$

11 **Reason Abstractly** A car rental company's fees are shown. Suppose you rent a car using Option 2. Write an expression that gives the total cost in dollars for driving m miles. Then find the cost for driving 150 miles.

The total cost is \$50 plus \$0.17 times the number of miles or $50 + 0.17m$.

So, It will cost $\$50 + \$0.17(150)$ or \$75.50 to rent a car using Option 2.

Car Rental Prices	
Option 1	Option 2
\$19.99 per day	\$50 fee
\$0.17 per mi	\$0.17 per mi