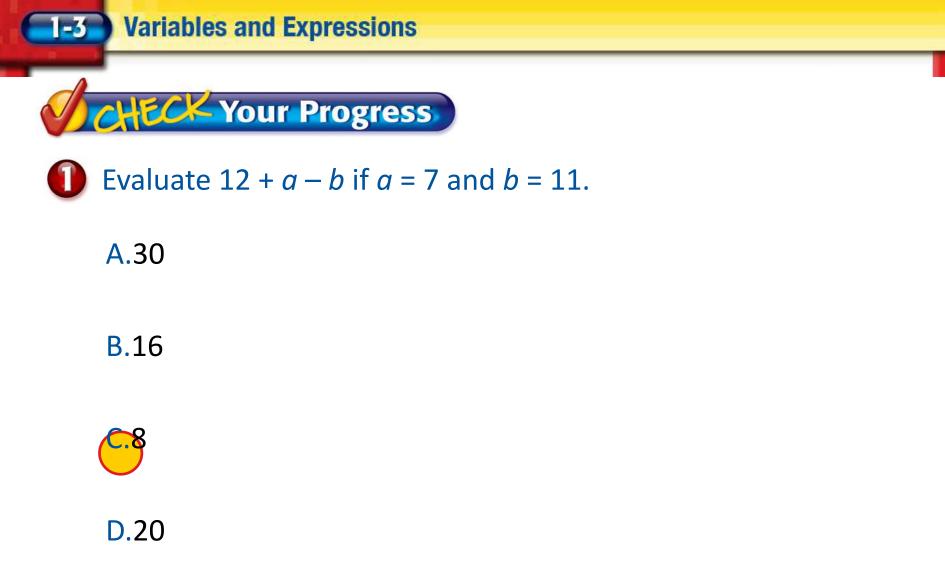


## $\bigcirc Evaluate x - y + 6 if x = 27 and y = 12.$

x - y + 6 = 27 - 12 + 6Replace x with 27 and y with 12.

= 15 + 6Subtract 12 from 27.

= 21Add 15 and 6.





**EXAMPLE** Evaluate Expressions

**2** A. Evaluate 
$$6y - 4x$$
 if  $x = 3$ ,  $y = 4$ , and  $z = 7$ .

6y - 4x = 6(4) - 4(3)Replace y with 4 and x with 3.

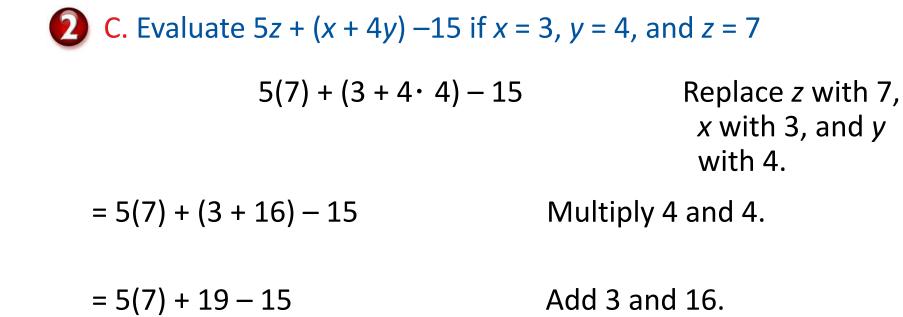
- = 24 12 Multiply.
- = 12Subtract.



**EXAMPLE** Evaluate Expressions

**2** B. Evaluate 
$$\frac{(z - x)}{y}$$
 if  $x = 3$ ,  $y = 4$ , and  $z = 7$ .

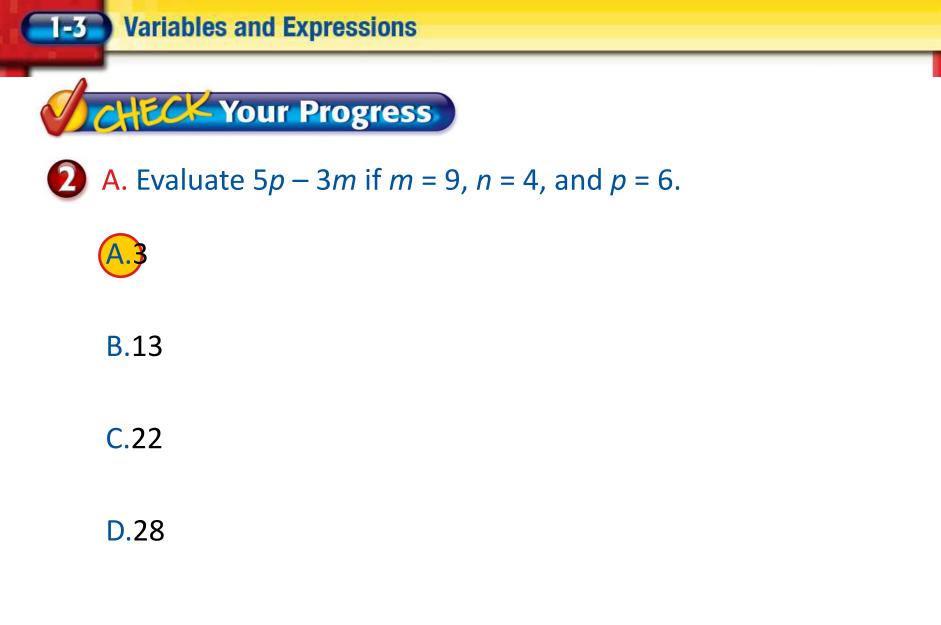
$$\frac{(7-3)}{4}$$

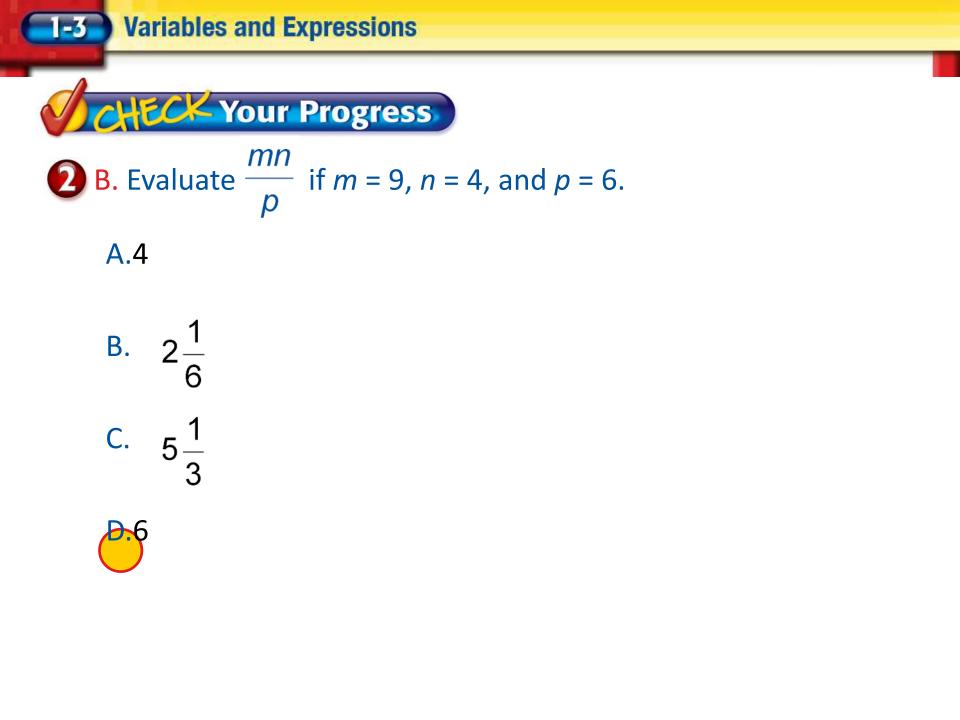


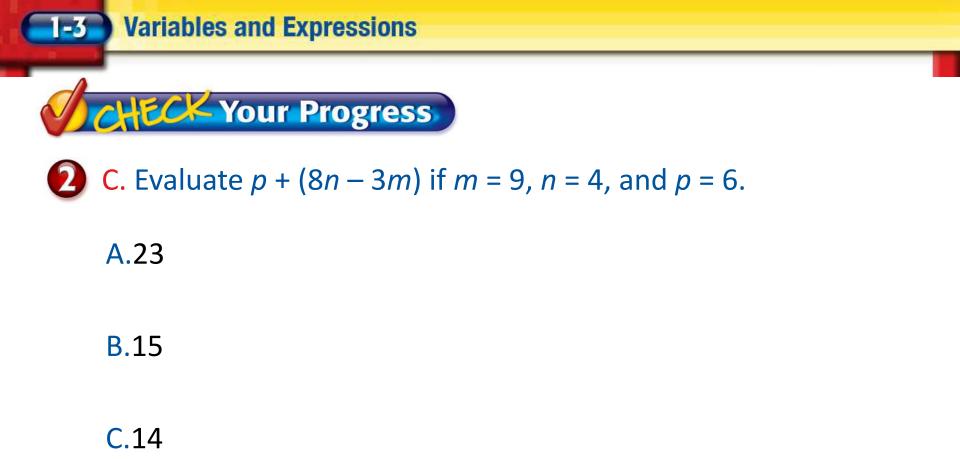
- = 35 + 19 15 Multiply 5 and 7.
- = 54 15 Add 35 and 19.
- = 39 Subtract 15 from 54.



## **EXAMPLE** Evaluate Expressions







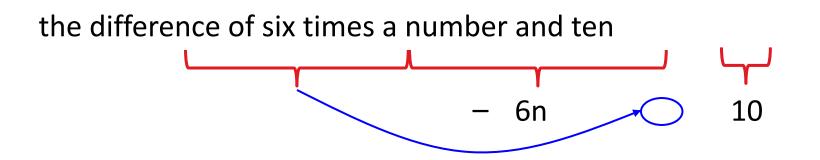




**EXAMPLE** Translate Verbal Phrases into Expressions

3 A. Translate the phrase 35 more than the number of tickets sold into an algebraic expression.

**B.** Translate the phrase *the difference of six times a number and ten* into an algebraic expression.



Answer: The expression is 6n - 10.



3 A. Translate the phrase *eight less than the number of cookies baked* into an algebraic expression.



**B**.8 − *c* 

**C**.–8 – *c* 

**D**.−*c* − 8



B. Translate the phrase *the sum of twelve and five times a number* into an algebraic expression.

A.12(5 + *n*)

## **B**.12 + 5 + *n*



**D**.17*n* 



- A. RETAIL The Read It Bookstore is advertising a sale. The price of hardback books is \$9.50 and the price of paperback books is \$4.50. Write an expression that can be used to find the total amount of money spent at the bookstore.
  - A.9.5 + 4.5 B.(9.5 + 4.5)*hp* C.*h* + *p* D.9.5*h* + 4.5*p*





B. RETAIL The Read It Bookstore is advertising a sale. The price of hardback books is \$9.50 and the price of paperback books is \$4.50. Suppose Emily buys 5 hardback books and 4 paperback books. Find the total amount she spent at the book sale.

A.\$85.50 B.\$65.50 C.\$60.50 D.\$126.00

