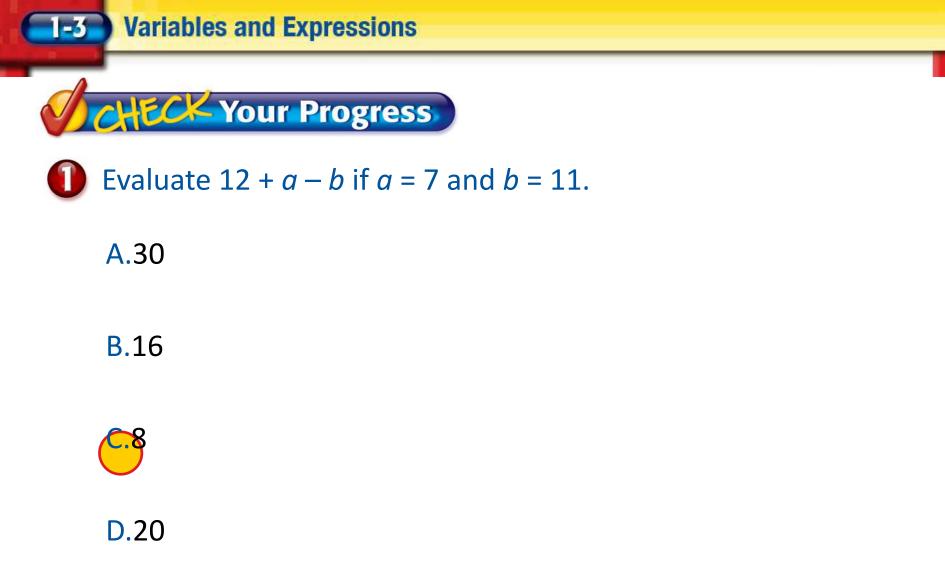


$\bigcirc Evaluate x - y + 6 if x = 27 and y = 12.$

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.

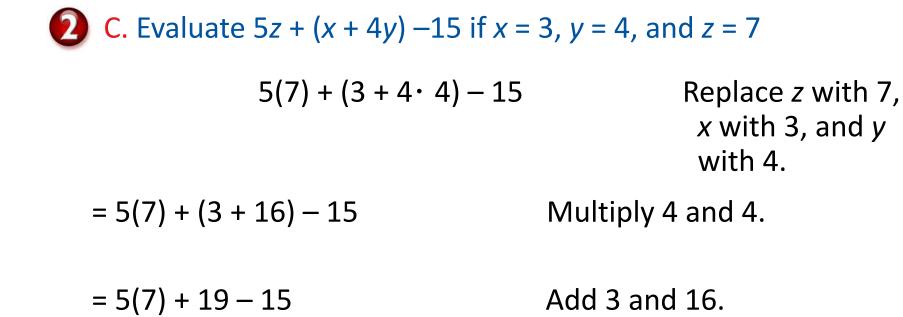
- = 24 12 Multiply.
- = 12Subtract.



EXAMPLE Evaluate Expressions

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

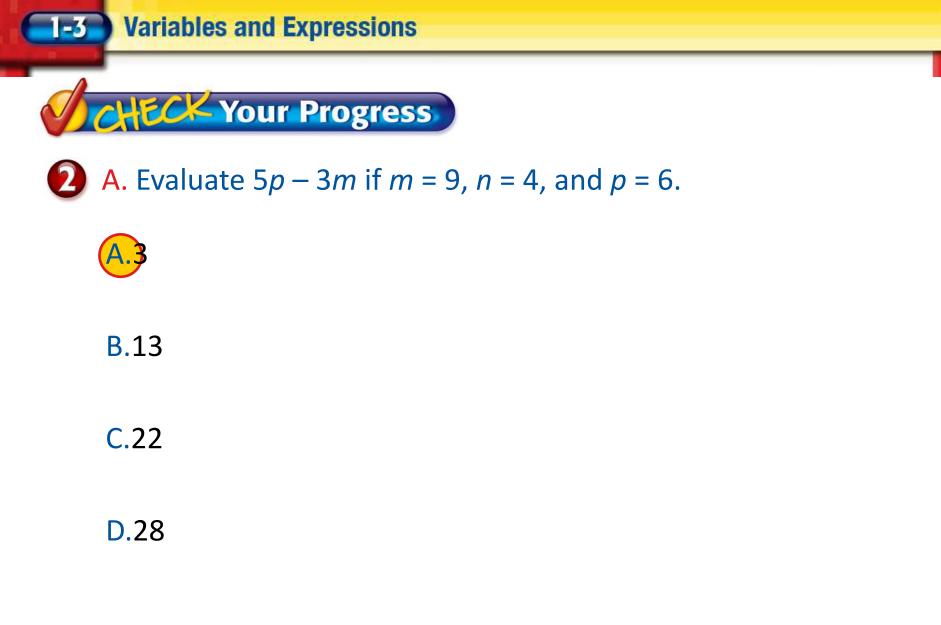
$$\frac{(7-3)}{4}$$

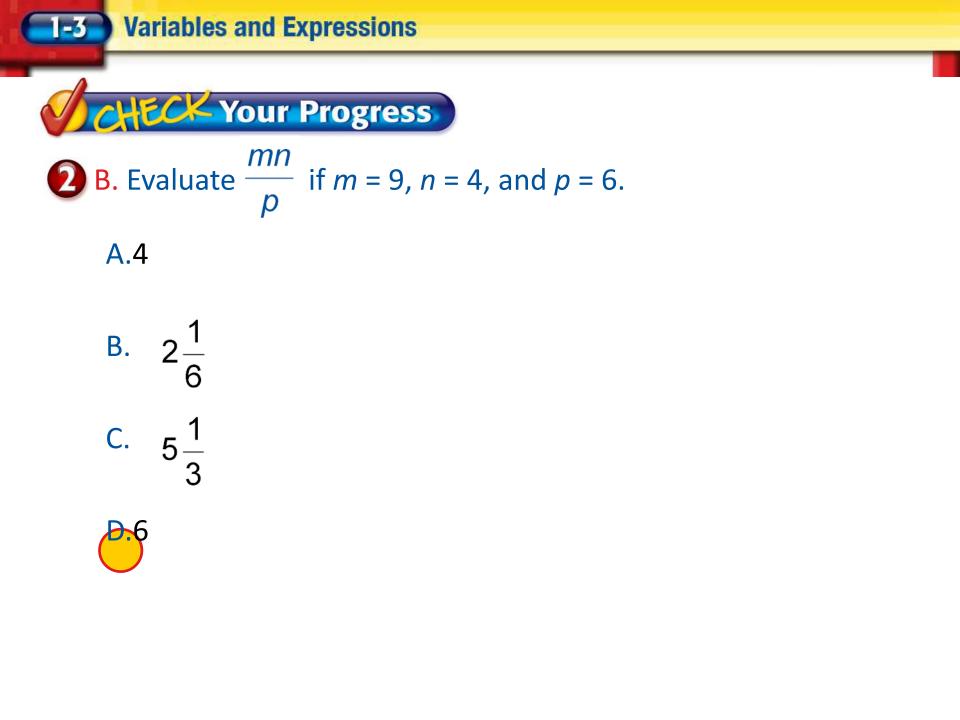


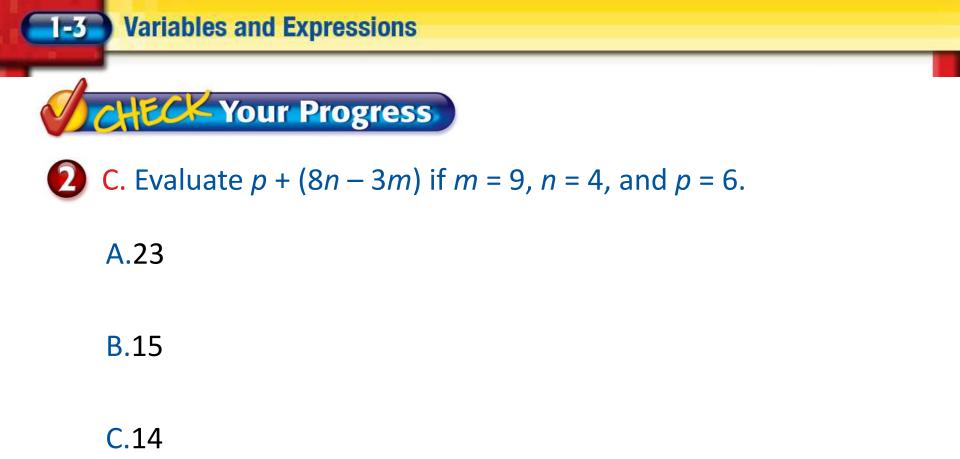
- = 35 + 19 15 Multiply 5 and 7.
- = 54 15 Add 35 and 19.
- = 39 Subtract 15 from 54.



EXAMPLE Evaluate Expressions







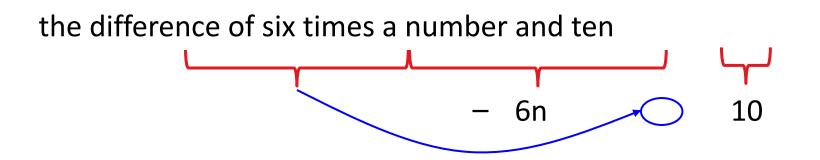




EXAMPLE Translate Verbal Phrases into Expressions

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

