

LESSON
11-2**Evaluating Expressions****Practice and Problem Solving: D**

Evaluate each expression for the given value of the variable.
Show each step you used. The first one is done for you.

1. $3n + 4^2$ when $n = 2$

$3 \times 2 + 4^2 \rightarrow$ Substitute 2 for n .

$3 \times 2 + 16 \rightarrow$ Evaluate exponents.

$6 + 16 \rightarrow$ Multiply.

22 \rightarrow Add.

2. $2 \times (a + 3)$ when $a = 5$

$2 \times (5 + 3) \rightarrow$ Substitute values.

$2 \times \underline{\quad} \rightarrow$ Clear the parentheses.

$\underline{\quad} \rightarrow$ Multiply.

3. $r + r \div 2 \times 4$ when $r = 8$

$8 + 8 \div 2 \times 4 \rightarrow$ Substitute values.

$8 + \underline{\quad} \times 4 \rightarrow$ Multiply or divide from left to right, so divide first.

$8 + \underline{\quad} \rightarrow$ Multiply.

$\underline{\quad} \rightarrow$ Add.

Use the given values to complete each table. The first one is done for you.

4.

w	$6(3 + w)$
2	30
3	36
4	42

5.

c	$2c + 7$
4	
6	
8	

6.

w	$w^2 - 3$
2	
3	
4	

Solve. Show your work.

7. The height of horses is measured in *hands*. To find the height of a horse in inches, use the expression $4h$, where h is the number of hands. Rosa has a horse that is 15 hands tall. How tall is Rosa's horse in inches?

Rosa's horse is _____ inches tall.