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$\qquad$ Class $\qquad$

## Lesson Evaluating Expressions

## Reading Strategies: Use a Flowchart

A flowchart gives you a plan. You can use a flowchart to evaluate expressions.


| Evaluate $x^{2}-3(4+1)$ when $x=7$. | Plan |
| :---: | :---: |
| $7^{2}-3(4+1)$ | $1$ <br> Substitute for each variable. |
| $49-3(4+1)$ | $2$ <br> Evaluate exponents. |
| 49-3(5) | $3$ <br> Eliminate parentheses. |
| 49-15 | $4$ <br> Multiply and divide from left to right. |
| 34 | $5$ <br> Add and subtract from left to right. |

Evaluate $(2 n+8) \div t-2$
when $n=6$ and $t=5$.

$$
(2 \cdot 6+8) \div 5-2
$$

There are no exponents.
$(12+8) \div 5-2$
$20 \div 5-2$
4-2

2

Use the flowchart to evaluate each expression.

| Plan | Evaluate $(5+y)-3^{2}$ when $y=14$. |
| :---: | :---: |
| $\mathbf{1}$ |  |
| Substitute for each variable. |  |
| $\mathbf{2}$ |  |
| Evaluate exponents. |  |
| $\mathbf{3}$ |  |
| Eliminate parentheses. |  |
| $\mathbf{4}$ |  |
| Multiply and divide from left to right. |  |
| $\mathbf{5}$ |  |
| Add and subtract from left to right. |  |

2. 

| Plan | Evaluate $m^{2}-2(3 p+6)$ when $m=10$ and $p=4$. |
| :---: | :---: |
| $\mathbf{1}$ |  |
| Substitute for each variable. |  |
| $\mathbf{2}$ |  |
| Evaluate exponents. |  |
| $\mathbf{3}$ |  |
| Eliminate parentheses. |  |
| $\mathbf{4}$ |  |
| Multiply and divide from left to right. |  |
| $\mathbf{5}$ |  |
| Add and subtract from left to right. |  |

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## Reading Strategies

1. $(5+14)-3^{2}$;
$(5+14)-9 ;$
19-9;
There is no multiplication or division;
10
$2.10^{2}-2(3 \sqcup 4+6)$;
$100-2(12+6) ;$
$100-2 \square 18$;
100-36;
64
