

Chapter 2 — Evaluating Algebraic Expressions

Worksheet A: Guided Practice

Name: _____ Grade: _____ Date: _____

1. Evaluate: x^2+1 when $x=4$

Evaluate the exponent before adding.

2. Evaluate: $2x+6$ when $x=5$

Substitute 5 for x , then multiply before adding.

3. Evaluate: y^2-2 when $y=-3$

Put brackets around the negative value before squaring.

4. Evaluate: $7n-3$ when $n=2$

Replace n before calculating.

5. Evaluate: $3r^2$ when $r=2$

Square 2 before multiplying by 3.

6. Evaluate: $4a-b$ when $a=3$, $b=5$

Replace both variables before calculating.

7. Evaluate: $(3s)^2$ when $s=2$

Calculate inside the brackets before squaring.

8. A bike rental shop charges a \$5 starting fee and \$4 for each hour. The cost is represented by $5+4h$. Find the cost when $h=3$.

Substitute 3 for h , then include dollars in the answer.

9. Evaluate: $3m+4$ when $m=-2$

Keep -2 together when it replaces m.

10. Evaluate: $2k^2-3k$ when $k=-2$

Substitute first, then complete the exponent before multiplying.

11. Evaluate: $2p+3q$ when $p=-1$, $q=4$

Substitute each variable with its complete value.

12. Evaluate: $(-u)^2$ when $u=4$

The brackets show that the opposite of u is squared.

13. Evaluate: $-t^2$ when $t=4$

The exponent applies to t before the negative sign is applied.

14. The area of a square is represented by s^2 . Find the area when $s=6$.

The side length is multiplied by itself.

15. Evaluate: $4(2w+1)$ when $w=3$

Substitute before multiplying by 4.
