

Homework

p. 269: 1-6, 8, 17, 18

1. **VOCABULARY** In the expression $\sqrt{72}$, what is 72 called?
2. **★ WRITING** *Explain* what it means to “rationalize the denominator” of a quotient containing square roots.

SIMPLIFYING RADICAL EXPRESSIONS Simplify the expression.

3. $\sqrt{28}$

4. $\sqrt{192}$

5. $\sqrt{150}$

6. $\sqrt{3} \cdot \sqrt{27}$

8. $5\sqrt{24} \cdot 3\sqrt{10}$

13. $\sqrt{\frac{18}{11}}$

14. $\sqrt{\frac{13}{28}}$

17. $\frac{\sqrt{2}}{4 + \sqrt{5}}$

18. $\frac{3 + \sqrt{7}}{2 - \sqrt{10}}$