

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 12** Simplifying Algebraic Expressions  
by Factoring Polynomials

**Lesson 7** Dividing Polynomials Using Factoring



**guided  
notes**

### Lesson Objective

- Divide polynomials by factoring.

To divide polynomials by factoring, first \_\_\_\_\_, if possible, any expression containing more than one term.

Then, cancel the \_\_\_\_\_ factors and simplify the resulting expression.

1 Simplify:  $\frac{b^2 - 4}{b + 2}$ .

\_\_\_\_\_

2 Simplify:  $\frac{m^2 + 8m + 12}{m + 2}$ .

\_\_\_\_\_

3 Simplify:  $\frac{30g^2 - 57g - 45}{6 + 10g}$ .

\_\_\_\_\_

