

NAME _____

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 **factor** _____, if possible, any expression containing more than one term.

Then, cancel the **common** _____ factors and simplify the resulting expression.

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

$b - 2$

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

$m + 6$

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

$\frac{3(2g - 5)}{2}$

