

[See this page in the course material.](#)

What you'll learn to do: Evaluate and simplify rational expressions

A pastry shop has fixed costs of $\$280$ per week and variable costs of $\$9$ per box of pastries. The shop's costs per week in terms of x , the number of boxes made, is $280+9x$. We can divide the costs per week by the number of boxes made to determine the cost per box of pastries.

$$\frac{280+9x}{x}$$

Notice that the result is a polynomial expression divided by a second polynomial expression. In this section, we will explore quotients of polynomial expressions.

Licenses and Attributions

CC licensed content, Original

- Revision and Adaptation. **Provided by:** Lumen Learning. **License:** [CC BY: Attribution](#)

CC licensed content, Shared previously

- College Algebra. **Authored by:** Abramson, Jay et al.. **Provided by:** OpenStax. **Located at:** <http://cnx.org/contents/9b08c294-057f-4201-9f48-5d6ad992740d@5.2>. **License:** [CC BY: Attribution](#). **License Terms:** Download for free at <http://cnx.org/contents/9b08c294-057f-4201-9f48-5d6ad992740d@5.2>

CC licensed content, Specific attribution

- College Algebra. **Authored by:** OpenStax College Algebra. **Provided by:** OpenStax. **Located at:** <http://cnx.org/contents/9b08c294-057f-4201-9f48-5d6ad992740d@3.278:1/Preface>. **License:** [CC BY: Attribution](#)

</div