

Name: _____

Date: _____

Think

- You work forty hours a week at a furniture store. You receive a \$220 weekly salary, plus a 3% commission on sales over \$5000. Assume that you sell enough this week to get the commission. Given the functions $f(x) = 0.03x$ and $g(x) = x - 5000$, which of $(f \circ g)(x)$ and $(g \circ f)(x)$ represents your commission? Construct an argument to justify your answer.

- a.) What is the commission if your sales were \$9,210?
- b.) What is the commission if your sales were 4,590?

Relevant Prior Knowledge: *What is a composite function? How do we use them?*

Talk Idea

$(f \circ g)(x)$

Talk Idea

$(g \circ f)(x)$

Talk Idea

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We Understand
