

# What is MATH 109?

MATH 109 is a class designed to teach you the math skills you need when you are solving problems in business or finance. This includes topics like interest, trade discounts, depreciation, and taxes.

- If you feel confident you could correctly answer 4, 5 or all 6 of these questions, then enroll in only MATH 109.
- If you feel less confident or think you could only answer 0, 1, 2, or 3 questions correctly, then enroll in MATH 109 with additional support.

1. Can you complete these operations with fractions?

- $\frac{1}{3} + \frac{2}{5} = ?$
- $15\frac{1}{4} - 3\frac{1}{2} = ?$
- $\frac{5}{9} \cdot \frac{2}{3} = ?$

2. Can you convert between fractions, decimals, and percentages?

Fraction	Decimal	Percent
?	?	15%
$\frac{3}{8}$	?	?
?	1.6	?

3. A book costs \$20.50 before tax. If there is an 8% sales tax, what is the total cost?

4. Can you round to a specific place value?

- Round 145.863 to the tenths place.
- Round 130.321 to the hundreds place.
- Round 0.9936 to the thousandths place.

5. Can you translate this into an equation and solve it?

Donna's business has seven more employees than Robert's business. If they have a total of 29 employees, how many employees does Donna's business have?

6. Can you use the formula  $I = PRT$  to find the value of  $I$  if  $P = 5000$ ,  $R = 0.04$ , and  $T = 3$ ?