

Math Level 7 Placement

There are three different pathways to the math course required for your academic goal. Two of these pathways, Quantitative Reasoning and STEM, are intended for students planning to transfer to a four-year institution and the third is for those in Career and Technical Education (CTE) programs.

The Quantitative Reasoning path is for students whose academic goal is a Bachelor's degree in fields such as Music, Psychology, Art, History, Nursing and others. If you are on this path, Math Level 7 places you into [MTH 098](#).

The STEM path is for students whose academic goal is a Bachelor's degree in fields such as Engineering, Computer Science, Business, Biology, and others. If you are on this path, Math Level 7 places you into [MTH 060](#).

The CTE path is for students who plan to complete their degree or certificate at COCC in a program such as Automotive, GIS, Medical Assisting, Welding, and others. More information on CTE programs is found [here](#). If you are on this path, Math Level 7 placement means you are eligible to take a variety of courses and your choice depends on the specific CTE program.

Your advisor will help you determine the correct path and course for your academic goal. More information on the complete paths is available here: [Math Course Flow 2020-21](#)

Success in courses at this math level is more likely if you have strong skills in the following topics **before** taking the course.

- Equivalent fractions, including reducing fractions
- Operations with fractions (adding, subtracting, multiplying, dividing)

Simplify the following expressions without a calculator.

$$1) \frac{3}{5} + 5\frac{1}{3} \quad 2) \frac{3}{5} - \left(\frac{1}{3}\right) \quad 3) \frac{3}{5} \cdot \frac{10}{9} \quad 4) \frac{3}{5} \div \frac{6}{25}$$

- Simplifying expressions using the order of operations.

Simplify the following expressions.

$$1) 34 - 6 \div 2 \cdot 3 + 7 \quad 2) \frac{3}{5} \cdot \frac{1}{2} + \frac{1}{5} \div \frac{2}{3} \quad 3) 61.95 \div 1.05 - 2 \cdot (1.7 + 1.3)^3$$

- Solving problems involving ratios and proportions

Solve the following.

In her lasagna recipe, Jordan uses 3 cups of marinara sauce for every 4 people. If she uses 51 cups of sauce how many people will the lasagna serve?

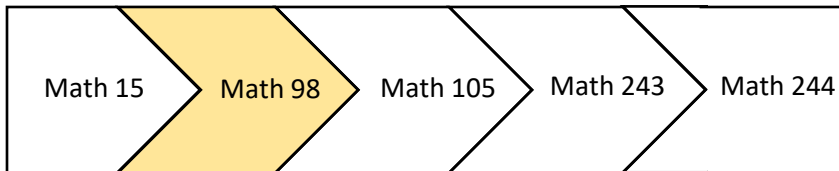
Questions about your math placement? Email mathplacement@cocc.edu

Math Course Pathways

Below are some questions to consider before you meet with a COCC advisor. Remember, you do not need to make the decision about which pathway you are on by yourself – you will have advising help in the future to guide your choice.

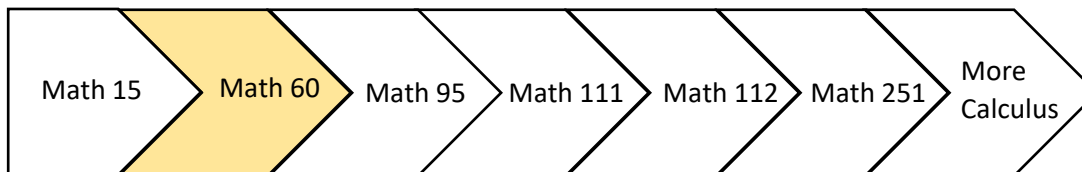
Are you considering a field such as music, psychology, art, nursing or history?

Follow the Quantitative Reasoning Pathway:



Are you considering business or a science field such as engineering, computer science or biology?

Follow the STEM Pathway:



Are you considering a Career-Technical field such as Automotive, GIS, or Welding?

Career-Technical Education (CTE) Pathway

