

To pass the placement exam for MATH 120C Quantitative Reasoning, the student must demonstrate proficiency in the following topic areas:

- Real numbers and arithmetic operations
- Fractions and decimals
- Place value and rounding
- Order of operations
- Percentages
- Word problems
- Proportions and rates
- Simple interest on a loan or investment
- Reading Graphs
- Rectangular coordinate system

The student who successfully completes this placement exam with a score of 75% or higher is eligible to enroll in MATH 120C Quantitative Reasoning.

Sample Practice Test for MATH 120C Placement Exam

A calculator is recommended. Be sure to have paper and pencil at hand to practice working out the problems. When you take the Placement Exam, you will be asked to provide photos of your work on the exam problems.

Consider the number 687,224

Write the digit for the given place value in the whole number above.

ten thousands:

hundreds:

ones:

Round 911 to the nearest ten

Use the order of operations to simplify this expression

$$\left(\frac{1}{5} + \frac{3}{10}\right) \cdot \frac{2}{3}$$

Suppose that each quarter at a particular community college Jared has to pay \$764 in tuition and \$38 in fees.

If Jared has 5 quarters remaining, find the total amount he will need for tuition and fees.

Simplify: $\frac{16}{0}$

Add $\frac{7}{50} + \frac{3}{50}$

Multiply: $\frac{1}{6} \cdot \frac{3}{5}$

Divide.

$$\frac{7}{5} \div \frac{21}{10}$$

If elephant grass grows $2\frac{2}{3}$ inches a day, how many inches will it grow in 8 days?

Write this decimal in numbers: forty-eight thousandths

Round 0.325 to the nearest hundredth

Write $\frac{6}{7}$ as a decimal. Round to the nearest thousandth if necessary.

110 is 30 percent of what number?

Find the amount of simple interest earned for depositing the given principal in an account.

$$P = \$2100$$

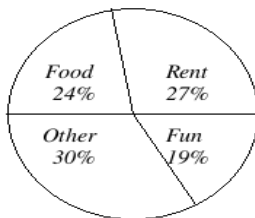
$$r = 9\%$$

$$t = 6 \text{ months}$$

Which is the better deal? \$ 1.79 for 6 gallons or \$ 2.49 for 8 gallons

A website advertises 62 video games for \$733. How much would 91 video games cost at the same unit price?

Esmeralda categorized her spending for this month into four categories: Rent, Food, Fun, and Other. The percents she spent in each category are pictured here.



If Esmeralda spent a total of \$2800 this month, how much did she spend on Fun?

Four cars get the following miles per gallon: 48 , 40 , 40 , and 64 . Find the mean.

Find the minimum for this list of numbers

89 85

24 78

84 82

18 12

23 65

79 39

37 80

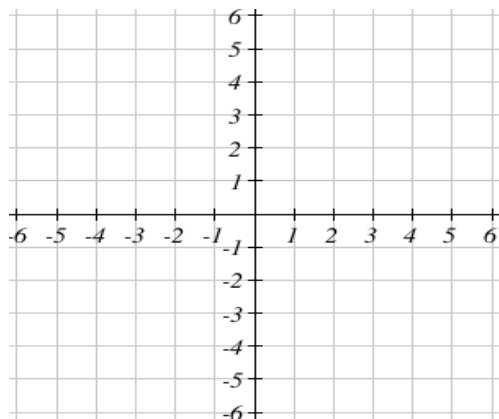
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For the equation $2x - 3y = 6$, complete the table:

$$\frac{x}{0} \quad \frac{y}{0}$$

0

Then graph the two points you found in the table to graph the line.



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