

MATH 01 - Arithmetic, Sec. 9767-D10

Third Test. Time allowed: two hours. Professor Luis Fernández

NAME: _____

INSTRUCTIONS:

- Solve the following exercises.
 - **In order to receive credit in any of the exercises YOU MUST SHOW WORK.**
 - All the fractions in your answers must be written **in lowest terms**.
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[4] **1.** Add:

a) $4.13 + 13.5 =$

b) $1442.05 + 0.052 =$

[4] **2.** Subtract:

a) $42.43 - 24.37 =$

b) $132.604 - 0.057 =$

[4] **3.** Multiply:

a) $2.01 \cdot 13.001 =$

b) $0.025 \cdot 321.2 =$

[4] **4.** Divide. Round off to the nearest hundredth.

a) $42.43 \div 12 =$

b) $3.272 \div 0.025 =$

[4] **5.** Find the exact value of $42.2 \div 3 =$

[6] **6.** Convert. Do not forget to write all fractions in lowest terms.

a) 0.43 to percent.

b) 0.43 to fraction.

c) 31% to decimal.

d) 31% to fraction.

e) $\frac{3}{5}$ to decimal.

f) $\frac{3}{5}$ to percent.

[6] **7.** Find

a) $\frac{5}{6}$ of 78.

b) 23% of 57.

[8] **8.** Solve the following proportions.

a) $\frac{5}{8} = \frac{x}{12}$.

b) $\frac{50}{120} = \frac{31}{y}$.

[10] **9.** What percent of 42 is 30?

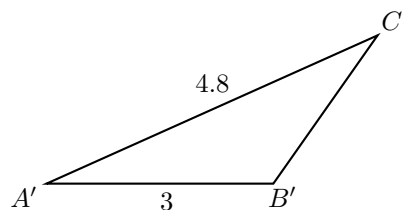
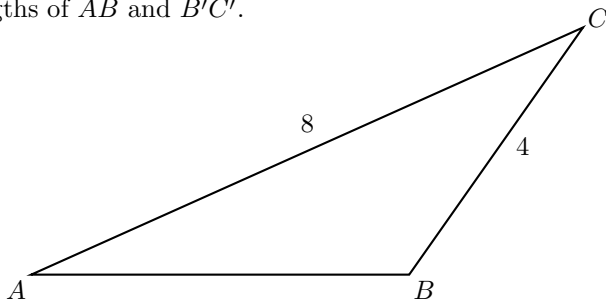
[10]**10.** 24 is 12% of what number?

[10]**11.** Joe's annual salary was \$32,540. He got a 7% raise. What is his new annual salary?

[10]12. Four students finish a class for every five students who begin. For 28 students to finish, how many must have begun the class?

[10]13. On a test Bill answered 36 problems correctly and scored 75%. How many problems were on the test?

- [10]14. In the following triangles, $\angle A = \angle A'$, $\angle B = \angle B'$, and $\angle C = \angle C'$. Given the lengths in the picture, find the lengths of \overline{AB} and $\overline{B'C'}$.



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- [10]15. Add the following numbers.

a) $(-4) + (-5) =$

b) $(-43) + 34$

c) $(-4.2) + (-53.1) =$

d) $5.2 + (-12.3)$

e) $\left(-\frac{4}{5}\right) + \frac{2}{3} =$