| MAT 0012C | PRACTICE FOR EXAM | Name: |
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| Practice |  | Date: |
| Chapters $5 \& 7$ |  | Section: |

## PARTI

You may NOT use a calculator on this part of the exam.
Perform each indicated operation(s):

1. $59.987+302.8210+2.07+9007.5$
2. $694.8201-72.982$
3. $\quad 347.2 \times 70.02$
4. $8692.34 \div 3.06$ (round your answer to the nearest hundredth)
5. Round 287493.97257 to ( 2 points each)
a) the nearest thousandth
b) the nearest thousand
6. Consider the number 56029.3861 (2 pts each)

Identify the digit that is in the
a) tens place
b) tenths place
7. Evaluate $9^{2}+\sqrt{9}$
8. Solve for $x: 12^{2}+x^{2}=13^{2}$

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PART II
You may use a calculator on this part of the exam.
9. Given a right triangle with one leg of length 8 inches and a hypotenuse of 16 inches, find the length of the other leg.
10. Consider the following figure, and find the length of its missing side.

5 in


12
11. Solve each equation:
a) $\quad 6.86 x-3.3(X-7)=5.32-6.19 x$
b) $\quad 4 X+6.92=6.7 X-3.5$
12. Write the ratio 6.3 to 0.9 as a fraction in lowest terms.
13. Write the rate 89 miles to 12 gallons as a unit rate.
14. Determine whether the following proportion is true or false.

$$
\frac{2.69}{8.49}=\frac{4.15}{10.89}
$$

15. Solve the following proportion:

$$
\frac{16}{7}=\frac{X}{24}
$$

16. 3.4 feet of wood is needed to make 1 kite. How much wood is needed to make 18 kites?
17. Which is the better buy?

32 oz of soap A for $\$ 4.59$
or 64 oz of soap B for $\$ 8.90$
18. Simplify the following expressions:
a) $6-1.5(6.81-7.88)^{5}-5.4163+8.9(9.2)$
b) $\quad 6.45-2.36(4.12)+(-1.34)^{3}$

