NAME:_____ Test 3 Sample 10/10/14

Prof. Antonakos MTH 01 D34

Each questions is 5 points. SHOW ALL WORK to receive full credit. Simplify all answers: reduce all fractions and convert improper fractions to mixed numbers. Decimals should be exact so indicate any repeating digits. Include any units.

The actual test will be on Thursday 10/16/14

1. $268.196 + 328.52 =$

2. $2300 - 1289.79 =$

3. $32.15 \times 4.04 =$

4. $1.698 \div 0.8 =$

5. $15 \div 9 =$

6. Solve for x: $\dfrac{18}{x} = \dfrac{6}{11}$

7. Solve for x: $\dfrac{\frac{4}{5}}{3} = \dfrac{x}{2\frac{1}{7}}$

8. (a) GCF(36, 24)=

    (b) LCM(36, 24)=

9. Solve for x: $5x - 12 = 9$

10. Solve for x: $-\frac{2}{3}x = 18$

11. Change $4\frac{3}{10}\%$ to a decimal or reduced fraction.

12. Give 0.006 as a percent.

13. If 75% of a number is 120, what is the number? Round to one decimal point if needed.

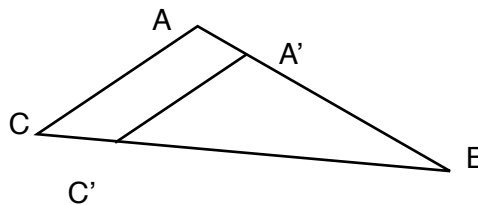**14.** Put the fractions in increasing order:

$$\frac{4}{9}, \ \frac{2}{3}, \ \frac{7}{12}$$

15. If the temperature is 50° Fahrenheit, what is it in degrees Celsius? Use $C = \frac{5}{9}(F - 32)$.

16. Evaluate $3x^2 - 5x + 9$ when $x = -2$.

17. If 32 out of 40 students passed a class, find the exact percentage of students who failed.

18. Given $\overline{AC}$ is parallel to $\overline{A'C'}$, and that sides $\overline{AC} = 10$cm, $\overline{A'C'} = 6$cm, and $\overline{AB} = 12$cm, find the length of $\overline{A'B}$.

A

A'

C

C'

B

19. A right triangle with hypotenuse of 16cm has one 9cm leg. How long is the other leg?

20. If a 2m tall man casts a 3m shadow, how tall is a tree that casts a 5m shadow?

End of Sample Test 3