BRONX COMMUNITY COLLEGE
of the City University of New York

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MATH 01   Exam 2

Nikos Apostolakis   April 18, 2013

Name: _____

Instructions:

- Solve all problems.

- Write your answers in the provided space and **show all your work** in the booklet.

- All fractions in your answers should be in **lowest terms.**

1. Compute:

    (a) $28 - 4 \times (3 + 2) =$

    (b) $\dfrac{3}{8} + \dfrac{5}{12} =$

    (c) $7\dfrac{2}{3} - 2\dfrac{5}{6} =$

    (d) $\dfrac{20}{21} \times \dfrac{7}{10} =$

    (e) $\dfrac{2}{3} \div 6 =$

2. Arrange from smallest to largest:
$$\frac{5}{8}, \frac{9}{16}, \frac{3}{4}$$

3. Add: $6.172 + 12.06 =$

4. Subtract: $74.23 - 47.123 =$

5. Multiply: $12.003 \times 5.04 =$

6. Divide. Give *exact* answer:

    (a) $5.12 \div 6 =$

    (b) $24.648 \div 7.9 =$

7. Divide. Round off to the nearest hundredth: $2.34 \div 2.1 \approx$

8. Convert $\dfrac{74}{25}$ to a mixed number.

9. Convert 45% to a fraction.

10. Convert 45% to a decimal.

11. Convert 0.125 to a fraction.

12. Convert 0.125 to a percent.

13. Convert $\dfrac{13}{20}$ to a decimal.

14. Convert $\dfrac{13}{20}$ to a percent.

15. Change to a decimal rounded to the nearest tenth: $\dfrac{2}{7}$.

16. Find 13% of 237.

17. Find $\dfrac{2}{5}$ of 37.

18. A book costs \$150. How much you will pay if you buy it at 25% off?

19. 65 out of 80 students passed a certain class. What percentage of the students passed?

20. In a class of 120 students the passing rate was 70%. How many students passed the class?