DEPARTMENT OF MATHEMATICS & COMPUTER SCIENCE

MATH 01   Practice Exam 2

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Print Name: _____

> **Directions:** You *must* show all your work in the provided space for full credit. Simplify your answers whenever possible. Be certain to indicate your final answer clearly. Each problem is worth 5 points.

1. Write $46,001,345,019$ in words.

2. Subtract: $11\dfrac{1}{5} - 4\dfrac{1}{4}$

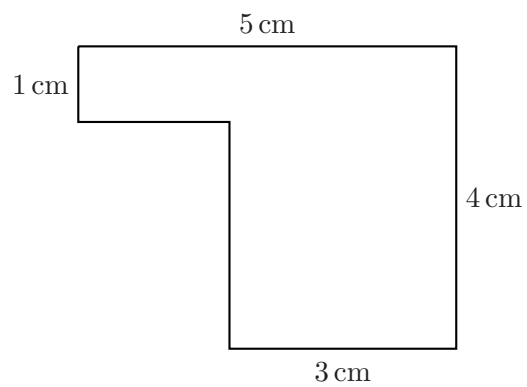3. Add: $6\dfrac{1}{2} + 7\dfrac{3}{5}$

4. Convert 23.42 to a mixed number in lowest terms.

5. Subtract: $183,101 - 97,746$

6. Divide $\dfrac{981.054}{5.2}$ and round your answer to the nearest hundredth.

7. Perform: $2\sqrt{9} + 4(5 + 11 \div 8) - 5^3$

8. Find the perimeter of the following shape:

5 cm

1 cm

4 cm

3 cm

9. The final grade in a class will be the average of the scores of five quizzes, rounded to the nearest tenth. If Jane's scores are 80.7, 78.5, 91.4, 86.3, and 75 what will her grade be?

10. Divide: $\quad 7\dfrac{2}{5} \div \dfrac{3}{10}$

11. Put the following in order from the smallest to the greatest: $\quad \dfrac{3}{5}, \dfrac{7}{10}, \dfrac{9}{20}, \dfrac{27}{40}$

12. Find the product of 35.78 and 1.26

13. A basketball player makes 25 out of 40 free throws. What percentage of free throws did she make?

14. A round trip to a certain country that usually costs $1500 is on sale at a 7% discount. What's the sale price?

15. Solve for y: $\dfrac{y}{30} = \dfrac{21}{10}$

16. John was to buy a bike that costs $350 and he saves $12.5 a week. How long will take John to buy the bike?

17. A rectangle has length $3\frac{3}{4}$ inches and width $2\frac{1}{4}$ inches.

    (a) Find the perimeter of the rectangle.

    (b) Find the area of the rectangle.

18. 80% of a number is 512. What is the number?

19. If a 10 feet tree casts a 15 feet shadow, how long will the shadow of a 5.8 foot man be?

20. A taxi charges \$5.50 for the first mile and \$2.25 for each additional mile. How much will a 16 miles ride?