

Math 085 - Test 4a

November 14, 2013

Name _____

Score _____

Part I - Circle the best answer for each problem. Each problem is worth 2 points. Partial credit may be awarded for correct work or explanations. **CALCULATORS ARE ALLOWED ON THIS PORTION OF THE TEST ONLY.**

1. Compute $3.87 + 5.23 \times (-2.97)$.

- (a) -11.6631
- (b) -27.027
- (c) 27.027
- (d) 19.4031

2. Write $\frac{1572}{18}$ as a mixed number in lowest terms.

- (a) $87\frac{3}{18}$
- (b) $86\frac{24}{18}$
- (c) $80\frac{6}{18}$
- (d) $87\frac{1}{3}$

3. A rectangular garden has dimensions $3\frac{7}{8}$ meters by $2\frac{3}{4}$ meters. Find the area of the garden. Write your answer as a mixed number in lowest terms.

- (a) $6\frac{5}{8} \text{ m}^2$
- (b) $10\frac{21}{32} \text{ m}^2$
- (c) 12 m^2
- (d) $\frac{53}{8} \text{ m}^2$

4. Combine like terms: $3.89x - 9.773y + 2.951x + 6.9y$

- (a) $6.841x - 2.873y$
- (b) $6.841x + 16.67y$
- (c) $0.939x - 16.67y$
- (d) $2.873x + 6.841y$

5. Compute $-\frac{14}{72} + \frac{82}{91}$. Write your answer in lowest terms.

- (a) $\frac{3589}{3276}$
- (b) $\frac{2315}{3276}$
- (c) $\frac{68}{163}$
- (d) $\frac{96}{163}$

Math 085 - Test 4b

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Part II - Circle the best answer for each problem. Each problem is worth 2 points. Partial credit may be awarded for correct work or explanations. **CALCULATORS ARE NOT ALLOWED ON THIS PORTION OF THE TEST.**

1. Find the least common multiple of 8, 16, and 12.

- (a) 4
- (b) 48
- (c) 1536
- (d) 32

2. Add and write your result as an improper fraction in lowest terms: $\frac{5}{8} + 2$

- (a) $\frac{7}{9}$
- (b) $\frac{21}{8}$
- (c) $\frac{5}{4}$
- (d) $\frac{7}{8}$

3. Solve for x : $x + \frac{1}{4} = \frac{3}{5}$

- (a) $x = \frac{17}{20}$
- (b) $x = \frac{3}{20}$
- (c) $x = 2$
- (d) $x = \frac{7}{20}$

4. Solve for w : $\frac{3}{4}w - \frac{1}{8} = \frac{1}{2}$

- (a) $w = \frac{5}{6}$
- (b) $w = \frac{4}{15}$
- (c) $w = 6$
- (d) $w = -\frac{1}{8}$

5. Convert $-12\frac{3}{4}$ to an improper fraction.

(a) $-\frac{51}{4}$

(b) $-\frac{45}{4}$

(c) $-\frac{15}{4}$

(d) $-\frac{36}{4}$

6. Add and write your result as a mixed number in lowest terms: $5\frac{2}{3} + 3\frac{5}{6}$

(a) $8\frac{3}{6}$

(b) $9\frac{1}{6}$

(c) $9\frac{1}{2}$

(d) $\frac{56}{6}$

7. Subtract and write your result as a mixed number in lowest terms: $13 - 9\frac{3}{8}$

(a) $4\frac{5}{8}$

(b) $3\frac{5}{8}$

(c) $-4\frac{3}{8}$

(d) $4\frac{3}{8}$

8. A recipe calls for $1\frac{2}{3}$ cups of sugar. How much sugar is required for $\frac{3}{4}$ of the recipe?

(a) $\frac{5}{4}$ cups

(b) $\frac{9}{20}$ cups

(c) $\frac{29}{12}$ cups

(d) 2 cups

9. Which one of these is the correct word name for 52.7?

- (a) Fifty-two point seven
- (b) Fifty-two and seven hundredths
- (c) Fifty-two point seven tenths
- (d) Fifty-two and seven tenths

10. Which one of these improper fractions is equivalent to 45.009?

- (a) $\frac{459}{10000}$
- (b) $\frac{45.009}{10}$
- (c) $\frac{45009}{1000}$
- (d) $\frac{459}{10}$

11. Which one of these numbers is greater than -0.5647 ?

- (a) -1.0
- (b) -0.565
- (c) -0.5648
- (d) -0.56

12. Multiply: 9.876×0.001

- (a) 9876
- (b) 0.09876
- (c) 987.6
- (d) 0.009876

13. Round 89.5428 to the nearest hundredth.

- (a) 90
- (b) 100
- (c) 89.54
- (d) 89.543

14. Which of the following is a reasonable estimate for $9\frac{1}{4} - 17\frac{1}{9}$?

- (a) -8
- (b) 26
- (c) -7
- (d) 8

15. Multiply: 13.9008×1000

- (a) 0.0139008
- (b) 1,390.08
- (c) 13,900.8
- (d) 0.139008

16. John hiked $\frac{3}{5}$ mi, took a 5-min break, and then hiked another $\frac{3}{8}$ mi. How far did John hike in all?

- (a) $\frac{6}{13}$ mi
- (b) $\frac{39}{40}$ mi
- (c) $\frac{3}{7}$ mi
- (d) $1\frac{1}{8}$ mi

17. Solve for x : $20 = 6 - \frac{2}{3}x$

(a) $x = -21$

(b) $x = -\frac{28}{3}$

(c) $x = 10$

(d) $x = -\frac{20}{6}$

18. Write $\frac{46}{4}$ as a mixed number in lowest terms.

(a) $11\frac{1}{4}$

(b) $10\frac{2}{4}$

(c) $11\frac{1}{2}$

(d) $46\frac{1}{4}$

19. Divide and write your result as a mixed number in lowest terms: $2\frac{1}{3} \div 1\frac{3}{4}$

(a) $2\frac{1}{4}$

(b) $4\frac{1}{12}$

(c) $\frac{12}{49}$

(d) $1\frac{1}{3}$

20. Evaluate $x + 2y$ when $x = 5\frac{1}{4}$ and $y = \frac{7}{8}$.

(a) $\frac{15}{8}$

(b) 7

(c) $6\frac{1}{8}$

(d) $\frac{7}{4}$