

Mathematics Preparation for College Success  
CCDM 100n  
Review II

**Instructions:** You may *not* use a calculator on this review assignment. Simplify all fractions to lowest terms.

1. Write “twenty thousand, two hundred twelve” in standard form.
2. Round 155,236 to the nearest hundred.
3. Add:  $64 + 2025 + 98$
4. Subtract:  $6,423 - 596$
5. Divide. Express your answer in remainder form.

$$19 \overline{)9667}$$

6. Simplify:  $3^4 \cdot 6^2$
7. Simplify:  $8^2 - 25 \div (9 - 4)$
8. Write the prime factorization of 120.
9. List the first 5 multiples of 23.
10. Find the Least Common Multiple (LCM) of 12 and 9.
11. Write  $\frac{37}{6}$  as a mixed number.
12. Write  $5\frac{4}{9}$  as an improper fraction.
13. Write an equivalent fraction with the given denominator.

$$\frac{5}{16} = \frac{\quad}{80}$$

14. Add:  $\frac{2}{3} + \frac{3}{4} + \frac{1}{18}$

15. Subtract:  $5\frac{1}{3} - 2\frac{1}{8}$

16. Multiply:  $5\frac{1}{8} \cdot 4$

17. Divide:  $3\frac{2}{7} \div \frac{1}{14}$

18. Add:  $52.146 + 36.89$

19. Subtract:  $102.47 - 95.081$

20. Multiply:  $2.702 \times 0.58$

21. Divide:  $30.128 \div 1.2$ . **Round to the nearest thousandth.**

22. Convert  $\frac{7}{15}$  to a decimal. **Round to the nearest hundredth.**

23. Convert 0.015 to a fraction in lowest terms.

24. Jackie went shopping and bought three blouses for \$17 each and two pairs of pants for \$23 each. How much was her total bill?

25. A calculator at the university bookstore cost \$42.95 and cost \$33.26 at a local discount store. What is the difference in price?

26. Subtract.  $12 - (-3)$

27. Multiply.  $-8(-7)$

28. Find the value of  $7a - 4b$ , when  $a = 3$  and  $b = 5$

29. Solve the following equations.

a.  $x - 4 = -10$

b.  $5x = -15$

30. Solve the following equation.  $3x + 15 = 18$

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Review II – Answers

1. 20,212

2. 155,200

3. 2187

4. 5827

5. 508 r 15

6. 2916

7. 59

8.  $2^3 \cdot 3 \cdot 5$

9. 23, 46, 69, 92, 115

10. 36

11.  $6\frac{1}{6}$

12.  $\frac{49}{9}$

13.  $\frac{25}{80}$

14.  $\frac{53}{36}$  or  $1\frac{17}{36}$

15.  $\frac{77}{24}$  or  $3\frac{5}{24}$

16.  $\frac{41}{2}$  or  $20\frac{1}{2}$

17. 46

18. 89.036

19. 7.389

20. 1.56716

21.  $\approx 25.107$

22.  $\approx 0.47$

23.  $\frac{3}{200}$

24. \$97

25. \$9.69

26. 15

27. 56

28. 1

29. a.  $x = -6$

b.  $x = -3$

30.  $x = 1$