

Mathematics Preparation for College Success
CCDM 100n
Review I

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

1. Write “eight thousand fifty-three” in standard form.
2. Round 20,152 to the nearest hundred.
3. Add: $4,292 + 58 + 106$
4. Subtract: $4,204 - 657$
5. Divide. Express your answer in remainder form.

$$17 \overline{)8754}$$

6. Simplify: $2^3 \cdot 5^2$
7. Simplify: $21 - 9 \div (8 - 5)$
8. Write the prime factorization of 96.
9. List the first 5 multiples of 17.
10. Find the Least Common Multiple (LCM) of 10 and 15.
11. Write $\frac{34}{7}$ as a mixed number.
12. Write $7\frac{3}{8}$ as an improper fraction.
13. Write an equivalent fraction with the given denominator.

$$\frac{3}{8} = \frac{\quad}{64}$$

14. Add: $\frac{1}{3} + \frac{5}{7} + \frac{4}{21}$

15. Subtract: $15\frac{1}{6} - 7\frac{1}{2}$

16. Multiply: $7\frac{1}{5} \cdot 4\frac{3}{4}$

17. Divide: $\frac{9}{7} \div \frac{27}{21}$

18. Add: $12.025 + 27.984$

19. Subtract: $41 - 6.302$

20. Multiply: 6.152×11.01

21. Divide: $9.412 \div 1.3$

22. Convert $\frac{7}{11}$ to a decimal. **Round to the nearest hundredth.**

23. Convert 0.28 to a fraction in lowest terms.

24. A nurse sets the drop rate for an IV medication at 25 drops each minute. How many drops does a patient receive in 2 hours?

25. A book that normally sells for \$13 is now on sale for \$11.97. What is the discount?

26. Subtract. $-15 - (-4)$

27. Multiply. $-3(4)$

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

29. Solve each equation:

a. $x + 6 = -15$

b. $-3x = 12$

30. Solve the following equation. $2x + 5 = 11$

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Review I – Answers

1. 8053
2. 20,200
3. 4456
4. 3547
5. 514 r 16
6. 200
7. 18
8. $2^5 \cdot 3$
9. 17, 34, 51, 68, 85
10. 30
11. $4\frac{6}{7}$
12. $\frac{59}{8}$
13. $\frac{24}{64}$
14. $\frac{26}{21}$ or $1\frac{5}{21}$
15. $\frac{23}{3}$ or $7\frac{2}{3}$
16. $\frac{171}{5}$ or $34\frac{1}{5}$
17. 1
18. 40.009
19. 34.698
20. 67.73352
21. 7.24
22. ≈ 0.64
23. $\frac{7}{25}$
24. 3000 drops
25. \$1.03
26. -11
27. -12
28. 3
29. a. $x = -21$ b. $x = -4$
30. $x = 3$