

Math 020 – Basic Math
Test One Review

Name _____

This is not a sample test. These problems are designed to get you started on your review for the test. Study the homework and your textbook for a more complete review. Use a calculator as needed. Do your work on another sheet of paper.

Section 1.1

1. Write the word name for 148,527
2. What digit names the number of thousands: 6,295,018?

Section 1.3

3. Write a related subtraction sentence: $7 + 9 = 16$

Section 1.4

4. Round to the nearest hundred: 74,382

Section 1.6

5. Write a related division sentence: $7 \cdot 16 = 112$

Section 1.7

6. Solve: $23 + n = 38$
7. Solve: $23 \cdot n = 161$

Section 1.8

8. Ted borrowed \$2232 for a new computer. The loan is to be paid off in 12 equal payments without interest. How much is each payment?
9. A traffic survey counted 425 cars going through an intersection in 30 minutes. How many cars go through the intersection in one minute? (Round to the nearest whole number)

Section 1.9

10. Write in exponential notation:
 $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$
11. Evaluate: 7^5
12. Simplify: $100 - 2 \cdot 3 \cdot 4$
13. Simplify: $5^3 + (7 + 3)^3$

Section 2.1

14. Find the prime factorization of: 180

15. Find the prime factorization of: 195

Section 2.3

16. Simplify: $\frac{15}{15}$ 17. Simplify: $\frac{0}{5}$

Section 2.4

18. Multiply: $\frac{2}{5} \cdot 3$ 19. Multiply: $\frac{3}{4} \cdot \frac{3}{5}$

Section 2.5

20. Simplify: $\frac{42}{70}$ 21. Simplify: $\frac{315}{765}$ 22. Are the two fractions equal? Justify your answer. $\frac{13}{27}$, $\frac{14}{28}$ 23. Find the missing number. $\frac{5}{14} = \frac{?}{42}$

Section 2.6

24. Multiply and simplify: $\frac{3}{4} \cdot \frac{5}{3}$ 25. Multiply and simplify: $18 \cdot \frac{5}{6}$

Section 2.7

26. Find the reciprocal of $\frac{7}{8}$ 27. Divide and simplify: $\frac{13}{14} \div \frac{6}{7}$ 28. Solve: $\frac{2}{3} \cdot x = 10$