

**Math 020 – Basic Math****Test Two 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.*

*Practice problems 1-12 **without a calculator**. Do your work on another sheet of paper.*

Section 3.1

1. Find the LCM of: 18, 20

Section 3.2

2. Add and simplify:
- $\frac{2}{5} + \frac{8}{5}$

Section 3.3

3. Solve. Simplify if possible.

$$x + \frac{1}{5} = \frac{4}{5}$$

4. Use < or > for
- $\square$
- to write a true sentence.

$$\frac{3}{7} \square \frac{2}{7}$$

Section 3.4

5. Convert to fraction notation:
- $2\frac{1}{5}$

6. Convert to a mixed numeral
- $\frac{13}{5}$

Section 3.5

7. Add. Leave answer as mixed numeral:
- $3\frac{4}{5} + 6\frac{3}{5}$

Section 3.7

8. Estimate as 0,
- $\frac{1}{2}$
- , or 1:
- $\frac{25}{53}$

Section 4.2

9. Add:
- $3.5 + .35 + 35 + 0.035$

Section 4.3

10. Multiply:
- $451.465 \times 0.00001$

Section 4.4

11. Divide:
- $\frac{23.425}{10,000}$

Section 4.5

12. Write in decimal notation:
- $\frac{7}{3}$

***Use a calculator as needed on problems 13 - 32.***

Section 3.2

13. Add. Write answer as a mixed number:

$$\frac{5}{6} + \frac{2}{3}$$

Section 3.3

14. Subtract.
- $\frac{3}{8} - \frac{1}{6}$

Section 3.3

15. Use < or > for
- $\square$
- to write a true sentence.

$$\frac{5}{9} \square \frac{6}{11}$$

16. Solve.
- $x + \frac{2}{5} = \frac{11}{20}$

Section 3.5

17. Add. Write a mixed numeral for the

answer.  $4\frac{3}{5} + 3\frac{3}{4}$

18. Subtract. Write a mixed numeral for the

answer.  $13\frac{1}{4} - 8\frac{3}{5}$

## Section 3.6

19. Multiply. Write a mixed numeral for the answer:  $7\frac{2}{3} \cdot 1\frac{1}{5}$
20. Divide. Write a mixed numeral for the answer:  $3\frac{1}{4} \div 2\frac{1}{6}$

## Section 3.7

21. Simplify:  $\left(\frac{3}{4}\right)^2 + 3\frac{1}{3} \div 1\frac{1}{4}$
22. A shelf in Clayton's library is 33 in. long. One volume of his encyclopedia is  $1\frac{3}{8}$  in. thick. How many volumes of his encyclopedia can he place on his shelf?
23. Jake had  $10\frac{1}{2}$  gallons of paint. After painting his dining room, he had  $8\frac{3}{4}$  gallons of paint left. How much paint did he use to paint the room?

## Section 4.1

24. Write in fraction notation. Do not simplify: 9.3274
25. Which number is larger? 0.063 or 0.5

## Section 4.1

26. Round 541.37246 to the nearest thousandth

## Section 4.3

27. Convert from dollars to cents. \$25.37

## Section 4.4

28. Calculate:  $(1 - 0.37)^2 + 62.903 - (.462 + 8.93)$

29. Calculate:  $7.3 \overline{)584.73}$

30. Solve:  $4.6 \cdot y = 374.21$

## Section 4.5

31. Write in decimal notation. Indicate repeating digits with a bar.  $\frac{17}{9}$
32. Calculate. Round to the nearest thousandth:  $\frac{1}{3} \cdot 82.53 - \frac{7}{9} \cdot 4.76$

## Section 4.7

33. Nina filled her truck's gas tank and noted that the odometer read 23,405.6. After the next filling, the odometer read 23,696.0. It took 17.6 gallons to fill the tank. How many miles per gallon did the truck get?