Name_____ Due Date_____ Score_____

***WORKSHEET # 1 [Section 1.1, 1.2, & 1.3]***

1. Which is NOT a factor of 12? [A] 4 [B] 3 [C] 6 [D] 24

   [1] _____

2. Write the prime factors of 12. [A] 2, 2, 3 [B] 4, 3 [C] 1, 12 [D] 2, 3, 3

   [2] _____

3. Write the prime factors of 12.

   [3] _____

4. Write the prime factorization of 57.

   [4] _____

5. What are the prime factors of 15? [A] 3, 5 [B] 1, 3 [C] 1, 15 [D] 3, 5, 15

   [5] _____

6. Find the least common multiple of 7 and 17.

   [6] _____

7. What is the least common multiple of 18 and 54? [A] 18 [B] 54 [C] 9 [D] 162

   [7] _____

8. Find the least common multiple of 14, 10, and 12.

   [8] _____

9. Find the LCM of 7, 21, and 35. [A] 245 [B] 7 [C] 105 [D] 735

   [9] _____

10. Find the least common multiple of 15, 33, and 44. [A] 660 [B] 1320 [C] 40 [D] 3080

    [10] _____

11. Which of the following represents 6 is less than 9?

[A] $6 > 9$ [B] $6 \leq 9$ [C] $6 < 9$ [D] $6 \geq 9$

[11] _____

12. Which of the following represents 2 is greater than or equal to 1?

[A] $2 > 1$ [B] $2 \leq 1$ [C] $2 \geq 1$ [D] $2 < 1$

[12] _____

13. Consider the set of numbers $\left\{2,\ -\frac{5}{8},\ -5,\ 4\pi,\ 6,\ 0.7,\ \sqrt{3},\ -\frac{1}{2}\right\}$. Choose the elements of the set that are natural numbers.

[A] $\sqrt{3}$, 6, $-\frac{1}{2}$, 2 [B] 2, 6 [C] $4\pi$, 6 [D] 2, $\sqrt{3}$

[13] _____

14. Consider the set of numbers $\left\{2,\ -\frac{5}{8},\ -5,\ 4\pi,\ 6,\ 0.7,\ \sqrt{5},\ -\frac{1}{2}\right\}$. List those that are natural numbers.

[14] _____

15. Which of the following is an irrational number? [A] $\sqrt{9}$ [B] $-\sqrt{25}$ [C] $\sqrt{12}$ [D] $-\frac{1}{\sqrt{9}}$

[15] _____

16. What symbol ( $>$ , $<$ , or $=$ ) will make the following expression true? $|-5|$ ____ $|5|$

[16] _____

17. Evaluate: $|9|$ [A] $-9$ [B] $\frac{1}{9}$ [C] $-\frac{1}{9}$ [D] 9

[17] _____

18. $|-6| =$

[18] _____

19. Which of the following fractions is equal to $\frac{3}{4}$? [A] $\frac{9}{44}$ [B] $\frac{4}{3}$ [C] $\frac{33}{12}$ [D] $\frac{9}{12}$

[19] _____

20. Find a fraction equivalent to $\frac{27}{57}$ with a denominator of 19. [A] $\frac{8}{19}$ [B] $\frac{10}{19}$ [C] $\frac{9}{19}$ [D] $\frac{7}{19}$

[20] _____

21. Find the missing number to make the fractions equivalent. $\frac{9}{12} = \frac{?}{48}$ [A] 36 [B] 48 [C] 38 [D] 37

[21] _____

Simplify:

22. $\frac{63}{49}$

[22] _____

23. $\frac{176}{80}$ [A] $\frac{16}{5}$ [B] $\frac{11}{5}$ [C] $\frac{11}{80}$ [D] none of these

[23] _____

24. Multiply and simplify: $\frac{5}{3} \cdot \frac{1}{20}$

[24] _____

25. Multiply: $\frac{2}{9} \cdot \frac{1}{12}$ [A] $\frac{1}{54}$ [B] $\frac{2}{108}$ [C] $\frac{1}{18}$ [D] $\frac{2}{54}$

[25] _____

Divide and simplify:

26. $\frac{7}{20} \div \frac{1}{5}$

[26] _____

27. $\frac{11}{20} \div \frac{1}{5}$ [A] $\frac{2}{3}$ [B] $\frac{4}{11}$ [C] $\frac{11}{4}$ [D] $\frac{11}{100}$

[27] _____

28. $\frac{3}{5} \div \frac{5}{9}$

[28] _____

Add:

29. $\frac{1}{13} + \frac{5}{13}$

[29] _____

30. $\frac{1}{4} + \frac{3}{10}$

[30] _____

31. $\frac{1}{9} + \frac{1}{12}$ [A] $\frac{23}{108}$ [B] $\frac{4}{3}$ [C] $\frac{7}{36}$ [D] $\frac{2}{21}$

[31] _____

Subtract and simplify:

32. $\frac{31}{24} - \frac{23}{24}$

[32] _____

Subtract and simplify:

33. $\frac{13}{15} - \frac{2}{5}$

[33] _____

34. $\frac{7}{12} - \frac{1}{6}$ [A] 1 [B] $\frac{4}{3}$ [C] 3 [D] $\frac{5}{12}$

[34] _____

35. Subtract: $6\frac{1}{7} - 1\frac{4}{5}$ [A] 5 [B] $4\frac{13}{35}$ [C] $\frac{3}{152}$ [D] $4\frac{12}{35}$

[35] _____

Add:

36. $2\frac{2}{9} + 2\frac{1}{8}$

[36] _____

37. 0.45 + 354 + 4.2 + 0.254

[37] _____

38. Subtract: 11 − 9.69 [A] 11 [B] 1.31 [C] 0.31 [D] none of these

[38] _____

39. Multiply: $0.58 \times 1.3$

[39] _____

40. Round 0.473181 to the nearest tenth.

[40] _____

41. Round 0.193443 to the thousandths place. [A] 0.1935 [B] 0.193 [C] 0.192 [D] 0.1934

[41] _____

42. Round 55.6451 to the nearest thousandth.

[42] _____

43. Write $\frac{17}{18}$ as a decimal.

[43] _____

44. Write $\frac{1}{8}$ as a decimal.

[44] _____

45. Simplify: $2 \cdot 2^5$ [A] 21 [B] 96 [C] 64 [D] 1024

[45] _____

Evaluate:

46. $\frac{32 \cdot 4^2 - 2 \cdot 2^2}{2 + 4^2}$ [A] 28 [B] $454\frac{2}{3}$ [C] $\frac{1}{26}$ [D] $909\frac{1}{3}$

[46] _____

47. $2 \cdot 6^2 - 5 \cdot 2^2$

[47] _____

48. $\frac{100 \cdot 5^2 - 4 \cdot 7^2}{7 + 5^2}$ [A] 72 [B] $\frac{2}{143}$ [C] 7788 [D] $1730\frac{2}{3}$

[48] _____

49. Write 41.1% as a decimal.

[49] _____

50. Write 0.07 as a percent.

[50] _____