

WEEK 1 - COMPUTATIONAL PRACTICE

(the * and • symbols stand for multiplication and / stands for division)

DIRECTIONS: When writing your answers, reduce all fractions and round all decimal answers to the nearest hundredth. Remember, these problems are for you, not your calculator!

WHOLE NUMBERS

1. $46,473 + 29,847 =$ 2. $40,331 - 18,768 =$ 3. $218 * 34 =$ 4. $7104 / 32 =$

DECIMALS

5. $81.04 + 3.215 =$ 6. $41.32 - 28.7 =$ 7. $2.18 * 1.5 =$ 8. $38 / .8 =$

FRACTIONS

9. $\frac{3}{5} + \frac{3}{10} =$ 10. $\frac{72}{100} - \frac{3}{10} =$ 11. $\frac{2}{9} * \frac{1}{2} =$ 12. $\frac{3}{8} \div \frac{2}{5} =$

MIXED NUMBERS

13. $5\frac{1}{4} + 2\frac{3}{8} =$ 14. $6\frac{1}{4} - 3\frac{3}{5} =$ 15. $1\frac{1}{4} \bullet 2\frac{4}{5} =$ 16. $2\frac{3}{4} \div \frac{5}{8} =$

ORDER OF OPERATIONS

17. $43 + 21 - 2 * 7 =$ 18. $4 + 5 (2^3 + 4) =$ 19. $28 + 20/4 * 5 =$ 20. $44 - 3^2 *$
 $2^0 =$

FRACTION/DECIMAL/PERCENT CONVERSIONS

21. Rewrite as a fraction: .8 22. Rewrite as a percent: .4
23. Rewrite as a decimal: $\frac{2}{5}$ 24. Rewrite as a percent: $\frac{5}{8}$
25. Rewrite as a fraction: 42% 26. Rewrite as a decimal: 3.5%

INTEGER OPERATIONS

27. $-104 + -78 =$ 28. $32 - 45 =$ 29. $8 * -11 =$ 30. $-48 / -4 =$

EVALUATING EXPRESSIONS (substitute numbers for variables and simplify)

31. $5x + 2y^2$ when $x = -3$ and $y = 4$ 32. $(x - y)^2 + (x - y^2)$ when $x = 5$ and $y = -3$
33. $3x^2 - 4y^0$ when $x = -2$ and $y = 8$ 34. $\sqrt{x^2 + 5y}$ when $x = 8$ and $y = 16$