Name: __

Date: ___

- In which order should the operations +, -, and ÷ be inserted into the blanks of $78 \underline{\hspace{0.2cm}} 24 \underline{\hspace{0.2cm}} 2 \underline{\hspace{0.2cm}} 6 = 72 \text{ to make the statement}$
 - A. $+, -, \div$ B. $-, \div, +$
 - C. $+, \div, -$ D. $\div, -, +$

- In which order should the operations -, x, and ÷ be inserted into the blanks of $48 \underline{\hspace{1cm}} 2 \underline{\hspace{1cm}} 4 \underline{\hspace{1cm}} 11 = 13$ to make the statement
 - A. \times , -, \div B. -, \times , \div
- - C. \times , \div , –
- D. ÷, -, ×

- If A stands for "add", S for "subtract", M for 3. "multiply", and D for "divide", which one of the following sequences represents the correct order of operations when evaluating $4 - (-5 + 6 \times 7) \div 8$?
 - A. MDAS
- B. AMAD
- C. MADS
- D. AMDS

- If A stands for "add", S for "subtract", M for "multiply", and D for "divide", which one of the following sequences represents the correct order of operations when evaluating $5 + (6 \times 7) \div 8 - 12$?
 - A. *MDAS*
- B. AMAD
- C. MADS
- D. AMDS

In the expression below, which operation is performed first?

$$-\frac{3}{4} + \frac{4}{5} \div \frac{1}{3} \times \frac{2}{5} - \frac{1}{4}$$

- A. $\frac{4}{5} \div \frac{1}{3}$ B. $\frac{1}{3} \times \frac{2}{5}$
- C. $\frac{2}{5} \frac{1}{4}$ D. $-\frac{3}{4} \frac{1}{4}$

Using the correct order of operations, which computation should you make first?

$$7 \div 4 + 1 \times 12 - 4 \div 2$$

- A. $7 \div 4$ B. 4 + 1 C. 1×12 D. $4 \div 2$

- Simplify $8 4 \cdot 2 + 5$ using the correct order of operations.
 - A. 0
- B. 5
- C. 13
- D. 28

- $2 \times 15 8 \div 4 =$ ____
 - A. 3.5
- B. 5.5
- C. 26
- D. 28

- 9. Simplify: $\frac{3+3\cdot3}{3}$
 - A. 2 B. 4
- C. 6
- D. 9

- 10. Simplify: $\frac{893 + 3^3}{4^3}$
 - A. 14.375
- B. 15
- C. 204.375
- D. 907.375

- 11. Evaluate 3.2b + 4.1 for b = 7.4
 - A. 7.62
- B. 24.09 C. 25.9
- D. 27.78

- 12. Evaluate 4.7t + 3.8 for t = 3.1
 - A. 14.88
- B. 15.67 C. 18.37 D. 148.8

- 13. What is 4n + 10n, if $n = \frac{1}{2}$?
 - A. 7
- B. 14
- C. 15
- D. 28

14. Given a = 20 and $b = \frac{a}{4} - 3$.

What is the value of b?

- A. 2
- B. $\frac{17}{4}$ C. 8
- D. 92

- 15. If n = 45, find the value of p in the equation $p = \frac{n}{9} + 5$.
- B. $\frac{50}{9}$ C. 10
- D. 234

- 16. Evaluate $8 + 2(a + b) (10 \div b + a^2)$ for a = 3 and b = 2
 - A. 13
- B. 22
- C. 36
- D. 4

- 17. Evaluate $[(8+2)(m+n)-10] \div n + m^2$ for m=3 and n=2
 - A. 13
- B. 22
- C. 29
- D. 54

- 18. If x = 4 and y = 8, what is $x^2 y$?
 - A. 0
- B. 8
- C. 16
- D. 34

- 19. Evaluate: $3a^2 4a + 2$ when a = 2
 - A. -12
- B. -2
- C. 6
- D. 10

- 20. Evaluate: $\frac{5^2(x-3)}{4}$ for x = 7
 - A. 10
- B. 20
- C. 25
- D. 160

21. Find the value of the numerator if r = 6:

$$\frac{(4r^2 - 2r - 54)(2r + 12)}{(5x^2 + 8r - 23)(6r + 8)}$$

- A. 481
- B. 1292
- C. 1645
- D. 1872

22. Find the value of the numerator if r = 3:

$$\frac{(3r^2 - 3r - 18)(5r + 18)}{(3r^2 + 6r - 45)(2r + 8)}$$

- A. 3
- B. 15
- C. 48
- D. 55

- 23. The formula P = 40r + 1.5r(h 40) is used to calculate the weekly pay of an employee. In the formula, r is the regular hourly wage, and h is the number of hours worked. (Notice that overtime hours are paid at $1\frac{1}{2}$ times the regular wage.) What is the weekly pay of an employee who earns \$8.50 an hour and works 44 hours in one week?
 - A. \$340
- B. \$374
- C. \$391
- D. \$452

- 24. The gate receipts at a football game may be calculated by the formula G = \$2.50s + \$4.00a, where s is the number of student tickets and a is the number of adult tickets. What were the gate receipts if there were 300 student tickets and 150 adult tickets sold?
 - A. \$1350.00
- B. \$1425.00
- C. \$1480.00
- D. \$1550.00

Problem-Attic format version 4.4.312

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Order of Operations with Expressions 2/5/2018

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