Name: $\qquad$ Date: $\qquad$
4. 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. $M D A S$
B. $A M A D$
C. $M A D S$
D. $A M D S$
5. 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. $-\frac{3}{4}-\frac{1}{4}$
6. 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. $1 \times 12$
D. $4 \div 2$
7. Simplify $8-4 \cdot 2+5$ using the correct order of operations.
A. 0
B. 5
C. 13
D. 28
8. $2 \times 15-8 \div 4=$ $\qquad$
A. 3.5
B. 5.5
C. 26
D. 28
9. Simplify: $\frac{3+3 \cdot 3}{3}$
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 $3.2 b+4.1$ for $b=7.4$
A. 7.62
B. 24.09
C. 25.9
D. 27.78
12. Evaluate $4.7 t+3.8$ for $t=3.1$
A. 14.88
B. 15.67
C. 18.37
D. 148.8
13. What is $4 n+10 n$, 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 $p=\frac{n}{9}+5$.
A. 1
B. $\frac{50}{9}$
C. 10
D. 234
16. Evaluate $8+2(a+b)-\left(10 \div b+a^{2}\right)$ 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: $3 a^{2}-4 a+2$ 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 $r=6$ :

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

A. 481
B. 1292
C. 1645
D. 1872
22. Find the value of the numerator if $r=3$ :

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

A. 3
B. 15
C. 48
D. 55
23. The formula $P=40 r+1.5 r(h-40)$ 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 $G=\$ 2.50 s+\$ 4.00 a$, 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. $\quad \$ 1350.00$
B. $\$ 1425.00$
C. $\$ 1480.00$
D. $\$ 1550.00$

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Order of Operations with Expressions 2/5/2018
1.

Answer: B
Objective: 6.EE.2C
2.

Answer: C
Objective: 6.EE.2C
3.

Answer: C
Objective: 6.EE.2C
4.

Answer: A
Objective: 6.EE.2C
5.

Answer: A
Objective: 6.EE.2C
6.

Answer: A
Objective: 6.EE.2C
7.

Answer: B
Objective: 6.EE.2C
8.

Answer: D
Objective: 6.EE.2C
9.

Answer: B
Objective: 6.EE.2C
10.

Answer: A
Objective: 6.EE.2C
11.

Answer: D
Objective: 6.EE.2C
12.

Answer: C
Objective: 6.EE.2C
13.

Answer: A
Objective: 6.EE.2C
14.

Answer: A
Objective: 6.EE.2C
15.

Answer: C
Objective: 6.EE.2C
16.

Answer: D
Objective: 6.EE.2C
17.

Answer: C
Objective: 6.EE.2C
18.

Answer: B
Objective: 6.EE.2C
19.

Answer: C
Objective: 6.EE.2C
20.

Answer: C
Objective: 6.EE.2C
21.

Answer: D
Objective: 6.EE.2C
22.

Answer: C
Objective: 6.EE.2C
23.

Answer: C
Objective: 6.EE.2C
24.

Answer: A
Objective: 6.EE.2C

