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Order of Operations with Exponents Version 1

Directions: Use the correct order of operations to determine each answer. Circle your answer for each problem.

Hint: Remember PEMDAS

1. $9^2 \times 3 \times 1 - 3$

2. $7^3 + 6^3 \div 1 \times 5$

3. $9 \times 5 + 2^3 - 9$

4. $6^2 + 9 \div 6^2 \times 1^2 \div 1$

5. $2^3 + 4^3 \times 9$

6. $6^2 \times 3^3 - 7$

7. $7 + 2^2 \times 6 + 2^2 - 6$

8. $8^2 - 5 \times 9 + 7 \times 7$

9. $6^3 \div 8 \div 9$

10. $7 - 3^3 \div 6$

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11. $2 + 9^2 - 2$

12. $6^3 + 3 + 1 - 9 - 5$

13. $8^2 - 9 - 1 + 2^2 \times 3$

14. $6 \div 1 \times 2^2 - 7$

15. $8^3 + 9 + 6^3 - 7 + 7$

16. $7 + 9^3 + 3$

17. $4 \times 5 \div 1$

18. $2 + 7 \times 6$

19. $6 + 4 - 3^3 \times 8$

20. $6^3 \times 8 \div 4$

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Order of Operations with Exponents Version 1

Answer Key

1. 240
2. 1423
3. 44
4. 36.25
5. 584
6. 965
7. 29
8. 68
9. 3
10. 2.5
11. 81
12. 206
13. 66
14. 17
15. 737
16. 739
17. 20
18. 44
19. -206
20. 432

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Order of Operations with Exponents Version 2

Directions: Use the correct order of operations to determine each answer. Circle your answer for each problem.

Hint: Remember PEMDAS

1. $5^2 + 6^2 \div 9$

2. $9 - 7 \div 1$

3. $5 + 7^2 + 2 - 2$

4. $2^2 \times 2 \times 8^2 + 6$

5. $4^2 \times 9 - 7 + 4 \times 7$

6. $8^3 \times 4^3 + 4$

7. $3 \times 5 - 1$

8. $4 \times 4 + 4 \times 2^3 \times 8$

9. $1 \div 1^3 + 9^3 + 2$

10. $7^3 - 8 + 5$

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11. $9 \times 4^3 + 3 \times 7$

12. $4 + 8^3 \div 1^3 - 4$

13. $1^3 \times 9 + 8 - 8$

14. $3 \times 7^2 \times 3 \div 1^3 \div 3$

15. $4 \times 7 \times 4^2 - 4 \div 1$

16. $6 - 6 + 5 + 9$

17. $2 - 5 \div 1 + 9$

18. $3 - 7 + 8$

19. $4^3 + 5 \div 5$

20. $9 + 4 \times 5$

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Answer Key

1. $5^2 + 6^2 \div 9 = 29$

2. $9 - 7 \div 1 = 2$

3. $5 + 7^2 + 2 - 2 = 54$

4. $2^2 \times 2 \times 8^2 + 6 = 518$

5. $4^2 \times 9 - 7 + 4 \times 7 = 165$

6. $8^3 \times 4^3 + 4 = 32772$

7. $3 \times 5 - 1 = 14$

8. $4 \times 4 + 4 \times 2^3 \times 8 = 272$

9. $1 \div 1^3 + 9^3 + 2 = 732$

10. $7^3 - 8 + 5 = 340$

11. $9 \times 4^3 + 3 \times 7 = 597$

12. $4 + 8^3 \div 1^3 - 4 = 512$

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13. $1^3 \times 9 + 8 - 8 = 9$

14. $3 \times 7^2 \times 3 \div 1^3 \div 3 = 147$

15. $4 \times 7 \times 4^2 - 4 \div 1 = 444$

16. $6 - 6 + 5 + 9 = 14$

17. $2 - 5 \div 1 + 9 = 6$

18. $3 - 7 + 8 = 4$

19. $4^3 + 5 \div 5 = 65$

20. $9 + 4 \times 5 = 29$

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Order of Operations with Exponents Version 3

Directions: Use the correct order of operations to determine each answer. Circle your answer for each problem.

Hint: Remember PEMDAS

1. $6 \times 2 + 2$

2. $8 - 1 + 2$

3. $2^2 + 7^2 \times 1 \times 1$

4. $7^2 + 6 \times 5 \times 1$

5. $2^3 \times 3 \times 6 \div 2$

6. $6 + 9 \times 3^2 - 5 - 1$

7. $1 + 9^3 \times 1$

8. $2^3 \times 2 - 2^2 - 3$

9. $5 \times 9 \div 5 + 7 + 5$

10. $6^2 - 6 + 2 + 1$

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11. $3 + 8^2 \div 2$

12. $1 + 1 \div 1$

13. $2^3 + 1^3 + 6^3 \times 6^3 \div 6$

14. $9 + 1^2 + 4^3 \times 7 \div 2$

15. $9 \times 3 - 1$

16. $8 \times 7^3 \times 6$

17. $8 - 6 \div 6$

18. $2^3 + 5 + 8^2 - 9$

19. $1 + 8 \div 1$

20. $6 \times 5^3 - 1 \times 5^3 + 2$

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Version 3 Answer Key

1. $6 \times 2 + 2 = 14$

2. $8 - 1 + 2 = 9$

3. $2^2 + 7^2 \times 1 \times 1 = 53$

4. $7^2 + 6 \times 5 \times 1 = 79$

5. $2^3 \times 3 \times 6 \div 2 = 72$

6. $6 + 9 \times 3^2 - 5 - 1 = 81$

7. $1 + 9^3 \times 1 = 730$

8. $2^3 \times 2 - 2^2 - 3 = 9$

9. $5 \times 9 \div 5 + 7 + 5 = 21$

10. $6^2 - 6 + 2 + 1 = 33$

11. $3 + 8^2 \div 2 = 35$

12. $1 + 1 \div 1 = 2$

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13. $2^3 + 1^3 + 6^3 \times 6^3 \div 6 = 7785$

14. $9 + 1^2 + 4^3 \times 7 \div 2 = 234$

15. $9 \times 3 - 1 = 26$

16. $8 \times 7^3 \times 6 = 16464$

17. $8 - 6 \div 6 = 7$

18. $2^3 + 5 + 8^2 - 9 = 68$

19. $1 + 8 \div 1 = 9$

20. $6 \times 5^3 - 1 \times 5^3 + 2 = 627$