

Order of Operations With Exponents

Name: _____ Date: _____

PEMDAS: parentheses, exponents, multiply/divide, add/subtract.

1. $8^2 + 3^2 =$ _____

2. $9^2 - 7 \times 4 =$ _____

3. $6^2 + 4^2 =$ _____

4. $(4 + 5)^2 =$ _____

5. $8^2 - 5 \times 5 =$ _____

6. $(4 + 6)^2 =$ _____

7. $(4 + 7)^2 =$ _____

8. $4^2 + 9^2 =$ _____

9. $6 \times 6^2 =$ _____

10. $2^3 \times 5 + 3 =$ _____

11. $(14 \div 2)^2 - 8 =$ _____

12. $(7 \times 6) - 4^2 =$ _____

13. $6^2 + 7^2 =$ _____

14. $(5 + 7)^2 =$ _____

15. $(7 \times 8) - 6^2 =$ _____

16. $(2 + 3)^2 =$ _____

17. $4^2 + 6^2 =$ _____

18. $6^2 + 8^2 =$ _____

19. $7 \times 5^2 =$ _____

20. $(3 + 3)^2 =$ _____

Order of Operations With Exponents

Answer Key

PEMDAS: parentheses, exponents, multiply/divide, add/subtract.

1. $8^2 + 3^2 = \underline{73}$

2. $9^2 - 7 \times 4 = \underline{53}$

3. $6^2 + 4^2 = \underline{52}$

4. $(4 + 5)^2 = \underline{81}$

5. $8^2 - 5 \times 5 = \underline{39}$

6. $(4 + 6)^2 = \underline{100}$

7. $(4 + 7)^2 = \underline{121}$

8. $4^2 + 9^2 = \underline{97}$

9. $6 \times 6^2 = \underline{216}$

10. $2^3 \times 5 + 3 = \underline{43}$

11. $(14 \div 2)^2 - 8 = \underline{41}$

12. $(7 \times 6) - 4^2 = \underline{26}$

13. $6^2 + 7^2 = \underline{85}$

14. $(5 + 7)^2 = \underline{144}$

15. $(7 \times 8) - 6^2 = \underline{20}$

16. $(2 + 3)^2 = \underline{25}$

17. $4^2 + 6^2 = \underline{52}$

18. $6^2 + 8^2 = \underline{100}$

19. $7 \times 5^2 = \underline{175}$

20. $(3 + 3)^2 = \underline{36}$