

Name: _____

Date: _____

Product, quotient and power rules

Write each answer as one power. Add, subtract or multiply the exponents.

1. $2^7 \div 2^2 = 2^?$ _____

11. $3^5 \div 3^2 = 3^?$ _____

2. $(2^3)^2 = 2^?$ _____

12. $3^7 \times 3^5 = 3^?$ _____

3. $5^5 \times 5^6 = 5^?$ _____

13. $4^2 \times 4^5 = 4^?$ _____

4. $3^6 \times 3^2 = 3^?$ _____

14. $(2^3)^4 = 2^?$ _____

5. $5^6 \div 5^2 = 5^?$ _____

15. $(5^3)^4 = 5^?$ _____

6. $10^8 \div 10^3 = 10^?$ _____

16. $10^7 \div 10^3 = 10^?$ _____

7. $4^5 \times 4^3 = 4^?$ _____

17. $(a^2)^3 = a^?$ _____

8. $(2^4)^3 = 2^?$ _____

18. $4^7 \times 4^5 = 4^?$ _____

9. $n^8 \div n^5 = n^?$ _____

19. $(a^4)^3 = a^?$ _____

10. $10^7 \div 10^2 = 10^?$ _____

20. $(5^2)^2 = 5^?$ _____

Exponents and Scientific Notation: Answer Key

1. 2^5

2. 2^6

3. 5^{11}

4. 3^8

5. 5^4

6. 10^5

7. 4^8

8. 2^{12}

9. n^3

10. 10^5

11. 3^3

12. 3^{12}

13. 4^7

14. 2^{12}

15. 5^{12}

16. 10^4

17. a^6

18. 4^{12}

19. a^{12}

20. 5^4