Name: _____ Date: _____

Fresh Math

Comparing Numbers in Scientific Notation - Medium

Compare the numbers. Write <, >, or =.

1. 3.6×10^{-3}, 5.2×10^{-3}

2. 3.2×10^{9}, 7.2×10^{9}

3. 3.1×10^{3}, 1×10^{5}

4. 6.5×10^{-4}, 9.5×10^{-6}

5. 7×10^{12}, 8.9×10^{12}

6. 5.7×10^{-7}, 9.4×10^{-9}

Order the numbers from least to greatest.

7. 8.5×10^{7}, 7.4×10^{7}, 1.4×10^{5}, 4.1×10^{6}

8. 1.3×10^{3}, 4.5×10^{4}, 4.6×10^{2}, 9.6×10^{3}

9. 8.9×10^{9}, 3.7×10^{9}, 1.6×10^{11}, 6.5×10^{8}

10. 8.7×10^{5}, 1.7×10^{6}, 7.2×10^{8}, 1.1×10^{6}

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Comparing Numbers in Scientific Notation - Medium

Order the numbers from least to greatest.

11. 8.1×10^{6}, 4.6×10^{7}, 7.3×10^{5}, 7×10^{5}

12. 2.2×10^{9}, 9.6×10^{11}, 1×10^{9}, 4.1×10^{10}

How many times as large is the first number as the second? Write your answer in scientific notation.

13. 1.6×10^{2}, 4×10^{-6}

14. 3.6×10^{2}, 1.2×10^{-5}

15. 1×10^{2}, 2.5×10^{-4}

16. 7.5×10^{2}, 1.5×10^{-5}

17. 2.4×10^{10}, 3×10^{4}

18. 7.2×10^{3}, 1.2×10^{-3}

19. 6.4×10^{7}, 1.6×10^{2}

20. 3.3×10^{-4}, 1.1×10^{-6}

Comparing Numbers in Scientific Notation - Medium - Answer Key

1. 3.6×10^{-3}, 5.2×10^{-3}
   $3.6 \times 10^{-3} < 5.2 \times 10^{-3}$

2. 3.2×10^{9}, 7.2×10^{9}
   $3.2 \times 10^{9} < 7.2 \times 10^{9}$

3. 3.1×10^{3}, 1×10^{5}
   $3.1 \times 10^{3} < 1 \times 10^{5}$

4. 6.5×10^{-4}, 9.5×10^{-6}
   $6.5 \times 10^{-4} > 9.5 \times 10^{-6}$

5. 7×10^{12}, 8.9×10^{12}
   $7 \times 10^{12} < 8.9 \times 10^{12}$

6. 5.7×10^{-7}, 9.4×10^{-9}
   $5.7 \times 10^{-7} > 9.4 \times 10^{-9}$

7. 8.5×10^{7}, 7.4×10^{7}, 1.4×10^{5}, 4.1×10^{6}
   1.4×10^{5}, 4.1×10^{6}, 7.4×10^{7}, 8.5×10^{7}

8. 1.3×10^{3}, 4.5×10^{4}, 4.6×10^{2}, 9.6×10^{3}
   4.6×10^{2}, 1.3×10^{3}, 9.6×10^{3}, 4.5×10^{4}

9. 8.9×10^{9}, 3.7×10^{9}, 1.6×10^{11}, 6.5×10^{8}
   6.5×10^{8}, 3.7×10^{9}, 8.9×10^{9}, 1.6×10^{11}

10. 8.7×10^{5}, 1.7×10^{6}, 7.2×10^{8}, 1.1×10^{6}
    8.7×10^{5}, 1.1×10^{6}, 1.7×10^{6}, 7.2×10^{8}

Comparing Numbers in Scientific Notation - Medium - Answer Key

11. 8.1×10^{6}, 4.6×10^{7}, 7.3×10^{5}, 7×10^{5}

7×10^{5}, 7.3×10^{5}, 8.1×10^{6}, 4.6×10^{7}

12. 2.2×10^{9}, 9.6×10^{11}, 1×10^{9}, 4.1×10^{10}

1×10^{9}, 2.2×10^{9}, 4.1×10^{10}, 9.6×10^{11}

13. 1.6×10^{2}, 4×10^{-6}

4×10^{7} (40,000,000 times)

14. 3.6×10^{2}, 1.2×10^{-5}

3×10^{7} (30,000,000 times)

15. 1×10^{2}, 2.5×10^{-4}

4×10^{5} (400,000 times)

16. 7.5×10^{2}, 1.5×10^{-5}

5×10^{7} (50,000,000 times)

17. 2.4×10^{10}, 3×10^{4}

8×10^{5} (800,000 times)

18. 7.2×10^{3}, 1.2×10^{-3}

6×10^{6} (6,000,000 times)

19. 6.4×10^{7}, 1.6×10^{2}

4×10^{5} (400,000 times)

20. 3.3×10^{-4}, 1.1×10^{-6}

3×10^{2} (300 times)