Number Relationships Study Sheet

DEFINITIONS

1. sum - _____
_____

2. difference - _____
_____

3. product - _____
_____

4. quotient - _____
_____

5. common factor - _____
_____

6. common multiple - _____
_____

7. prime number -_____
_____

8. composite number - _____
_____

9. face value - _____
_____

10. place value - _____
_____

11. total value - _____
_____

12. standard form - _____
_____

13. expanded form - _____
_____

14. exponential form - _____
_____

15. divisibility rule - _____
_____

16. power - _____
_____

17. base - _____
_____

18. exponent - _____
_____

19. square root - _____
_____

20. perfect squares - _____
_____

21. prime factorization - _____
_____

22. factor tree - _____
_____

23. GCF - _____
_____

24. LCM - _____
_____

25. scientific notation - _____
_____

26. BEDMAS - _____
_____

TOPICS

1. PLACE VALUE & ORDERING (sheet)
      - should know place value chart;
      - should know place, face, and total value;
      - should know how to write a number in standard & expanded form;
      - should know how to write numbers as words and vice versa;
      - should know spelling of numbers

2. IDENTIFYING PRIME & COMPOSITE NUMBERS (Rules of Divisibility Sheet, pp. 4 - 7)
      - should know all the divisibility rules;
      - should know how to identify numbers that are prime and composite

3. PRIME FACTORIZATION (pp. 8 - 11)
      - should know how to make a factor tree;
      - should know how to express a number as a product of its prime factors;

4. COMMON FACTORS & COMMON MULTIPLES (pp. 12 - 15)
      - should know how to use a Venn diagram to find GCF and LCM;
      -      "   "   "   "   to find other common factors and common multiples;

5. CALCULATING POWERS (pp. 16 - 18)
      - know the parts of an power;
      - know how to write a number in standard form, expanded form, and exponential form;
      - know how to calculate powers without calculators

6. MENTAL MATH: MULTIPLYING & DIVIDING BY POWERS OF 10 (p. 19)
      - know the shortcuts for multiplying & dividing by powers of ten without a calculator

7. EXPANDED FORM & SCIENTIFIC NOTATION (20 - 23)
      - know how to express a number in scientific notation

8. SQUARES & SQUARE ROOTS (sheet, pp. 28 - 31)
      - know how to find square roots of perfect squares (should know from 2 - 12)
      - know how to find square roots of numbers that are not exact without calculators;

8. ORDER OF OPERATIONS (pp. 34 - 37)
      - know BEDMAS