NBT Number and Operations in Base Ten

- **5.NBT.A Understand the place value system.**
  - **5.NBT.A.1 Recognize that in a multi-digit number, including decimals, a digit in any place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.**
    - Convert between standard and expanded form (5-A.1)
    - Place value (5-A.2)
    - Place values in decimal numbers (5-G.4)
  - **5.NBT.A.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.**
    - Understanding powers of ten (5-E.1)
    - Evaluate powers of ten (5-E.2)
    - Write powers of ten with exponents (5-E.3)
    - Multiply a whole number by a power of ten: with exponents (5-E.4)
    - Multiply a decimal by a power of ten: with exponents (5-E.5)
    - Divide by a power of ten: with exponents (5-E.6)
    - Multiply and divide by a power of ten: with exponents (5-E.7)
    - Multiply a decimal by a power of ten (5-I.3)
    - Multiply by 0.1 or 0.01 (5-I.)
    - Multiply by a power of ten with decimals: find the missing number (5-I.4)
    - Divide by powers of ten (5-J.1)
    - Decimal division patterns over increasing place values (5-J.2)
    - Divide by a power of ten with decimals: find the missing number (5-J.3)
    - Divide by 0.1 or 0.01 (5-J.)
  - **5.NBT.A.3 Read, write, and compare decimals to thousandths.**
    - **5.NBT.A.3.a Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000).**
      - What decimal number is illustrated? (5-G.1)
      - Understanding decimals expressed in words (5-G.3)
      - Convert decimals between standard and expanded form (5-G.6)
      - Convert decimals between standard and expanded form using fractions (5-G.19)
    - **5.NBT.A.3.b Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.**
      - Compare decimals using grids (5-G.10)
      - Compare decimals on number lines (5-G.11)
      - Compare decimal numbers (5-G.12)
  - **5.NBT.A.4 Use place value understanding to round decimals to any place.**
    - Round decimals (5-G.8)
    - Estimate sums and differences of decimals using rounding (5-H.8)
- **5.NBT.B Perform operations with multi-digit whole numbers and with decimals to hundredths.**

- **5.NBT.B.5 Fluently multiply multi-digit whole numbers. (Include two-digit × four-digit numbers and, three-digit × three-digit numbers) using the standard algorithm.**
  - Multiply by 2-digit numbers: complete the missing steps (5-C.13)
  - Multiply 2-digit numbers by 2-digit numbers (5-C.14)
  - Multiply 2-digit numbers by 3-digit numbers (5-C.15)
  - Multiply 2-digit numbers by larger numbers (5-C.16)
  - Multiply by 2-digit numbers: word problems (5-C.17)
  - Multiply three or more numbers up to 2 digits each (5-C.18)
  - Multiply by 3-digit numbers (5-C.19)
  - Multiply three numbers up to 3 digits each (5-C.20)
  - Multiply three or more numbers: word problems (5-C.21)
- **5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.**
  - Divide numbers ending in zeroes (5-D.7)
  - Divide numbers ending in zeroes: word problems (5-D.8)
  - Divide by 2-digit numbers using models (5-D.12)
  - Divide by 2-digit numbers using partial quotients (5-D.13)
  - Divide 2-digit and 3-digit numbers by 2-digit numbers (5-D.14)
  - Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems (5-D.15)
  - Divide 4-digit numbers by 2-digit numbers (5-D.16)
  - Divide 4-digit numbers by 2-digit numbers: word problems (5-D.17)
  - Multi-step word problems: multiplicative comparison (5-D.19)
  - Relate multiplication and division (5-D.20)
  - Choose numbers with a particular quotient (5-D.22)
- **5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction and between multiplication and division; relate the strategy to a written method and explain the reasoning used.**
  - Add decimal numbers using blocks (5-H.)
  - Add decimal numbers (5-H.1)
  - Subtract decimal numbers (5-H.2)
  - Add and subtract decimal numbers (5-H.3)
  - Add and subtract decimals: word problems (5-H.4)
  - Choose decimals with a particular sum or difference (5-H.5)
  - Complete the decimal addition or subtraction sentence (5-H.6)
  - Multiply a decimal by a one-digit whole number using blocks (5-I.5)
  - Multiply a decimal by a one-digit whole number using the distributive property (5-I.6)
  - Multiply a decimal by a one-digit whole number (5-I.7)
  - Multiply a decimal by a two-digit whole number using area models (5-I.8)
  - Multiply a decimal by a multi-digit whole number (5-I.9)
  - Multiply decimals and whole numbers: word problems (5-I.10)

- Multiply three or more numbers, one of which is a decimal (5-I.11)
- Complete the decimal multiplication sentence using grids (5-I.12)
- Multiply decimals using grids (5-I.13)
- Multiply two decimals: where does the decimal point go? (5-I.14)
- Multiply two decimals: products up to hundredths (5-I.15)
- Multiply two decimals: products up to thousandths (5-I.16)
- Divide decimals using blocks: complete the equation (5-J.4)
- Divide decimals using area models: complete the equation (5-J.5)
- Division with decimal quotients (5-J.6)
- Division with decimal quotients and rounding (5-J.7)
- Division with decimal quotients: word problems (5-J.8)
- Divide by decimals without adding zeroes (5-J.10)
- Divide by decimals (5-J.11)
- Add, subtract, multiply, and divide decimals (5-O.11)
- Add, subtract, multiply, and divide decimals: word problems (5-O.12)
- Add and subtract money amounts (5-R.1)
- Add and subtract money: word problems (5-R.2)
- Multiply money amounts: word problems (5-R.5)
- Divide money amounts: word problems (5-R.8)
- Unit prices (5-R.10)
- Keeping financial records (5-EE.10)

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