

Numbers and Operations: Equivalence Compacted DesCartes

Whole Numbers

- 151-170 Uses objects or pictures to decompose whole numbers to 10
- 171-180 Uses decomposing strategies to add & subtract numbers less than 100
Constructs equivalents of whole numbers (e.g. $15 + 5 = 10 + 10$)
- 181-200 Uses decomposing strategies to add & subtract numbers less than 100 and compute whole numbers
Constructs equivalent forms of whole numbers (e.g. $12 = 4 \times 3 = 2 \times 6 = 2 \times 2 \times 3$)
- 201-210 Constructs equivalent forms of whole numbers using place value (e.g. $54 = 4$ tens and 14 ones)

Money

- 171-180 Identifies collection of coins and bills to \$10.00 (with pictures)
Uses cent and dollar signs when appropriate
Connects money with place value
- 181-190 Identifies collection of coins and bills to \$1.00 (without pictures)
Makes change to \$1.00
Identifies the value of a collection of coins and bills to \$100.00
Finds equivalent combinations of coins with the same value
Combines a collection of coins and identifies the correct notation
- 191-200 Finds equivalent combinations of dollars and cents with the same value

Decimals, Fractions, & Percents

- 201-210 Writes a terminating decimal as a fraction or mixed number
Converts a basic fraction numeral to lowest terms (e.g. halves, thirds, quarters)
Writes mixed numbers as improper fractions and vice versa
- 211-220 Reduces equivalent fractions using visual representations
Expresses "1" in many different ways (e.g. $3/3$, $4/4$)
Expresses improper fractions as whole numbers (e.g. $4/2 = 2$, $12/3 = 4$)
Expresses a simple fraction as a decimal
Writes a basic percents as decimals and/or fractions and vice versa
Determines simple equivalent fractions using multiples
Writes a simple mixed fraction as a decimal and vice versa
Writes a fraction or mixed number as a decimal when the denominator is a multiple of ten
Converts fractions to lowest terms
Writes mixed numbers as improper fractions and vice and versa
Expresses a percent as a fraction with 100 as the denominator and vice versa
Expresses a percent as a decimal and vice versa

Decimals, Fractions, & Percents (Continued)

- 221-230 Reduces equivalent fractions using visual representations
Decomposes equivalent forms of whole numbers using place value over the hundreds
Determines equivalent fractions using multiples
Writes a simple mixed fraction as a decimal and vice versa
Writes a fraction or mixed number as a decimal when the denominator is a multiple of ten
Expresses a percent as a fraction and vice versa
Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction)
Writes a ratio as a decimal or percent and vice versa
- 231-240 Writes a fraction as decimal and mixed decimal and vice versa
- 231-241 Expresses a decimal as a whole number (e.g., 1.3 thousand = ?)
Expresses a percent as a decimal and vice versa
Writes a ratio as a decimal or percent and vice versa
- 241-250 Expresses the equivalent form of a fraction, decimal, and/or percent
- 251-260 Expresses a percent over a 100 or under 1 as a fraction in lowest terms and vice versa