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CW High School
Tech Math A

1. **Integers (20.00%)**

   Learning Targets

   1.1 **I can compute the sum of positive and negative integers when they are combined in a problem, without a calculator.**

Learning Target	Descriptor	Definition
4	Proficient	I can compute the sum of positive and negative integers when they are combined in a problem, without a calculator.
3	Developing	I can compute the sum of negative integers with 2 or more digits, without a calculator.
2	Basic	I can compute the sum of positive integers with 2 or more digits, without a calculator.
1	Minimal	I can compute the sums of 60 addition problems using only the positive whole digits of 0 - 9 within one minute, with no errors, without a calculator.
0	No Evidence	No evidence shown.

   1.2 **I can compute the differences between positive and negative integers, in any combination, without a calculator.**

Learning Target	Descriptor	Definition
4	Proficient	I can compute the differences between positive and negative integers, in any combination, without a calculator.
3	Developing	I can compute the difference between positive integers when the answer will be negative, without a calculator.
2	Basic	I can compute the difference between positive integers when borrowing is required, without a calculator.
1	Minimal	I can compute the difference between positive integers when no borrowing is required, without a calculator.
0	No Evidence	No evidence shown.

   1.3 **I can compute the product of positive and negative multi-digit integers, without a calculator.**

Learning Target	Descriptor	Definition
4	Proficient	I can compute the product of positive and negative multi-digit integers, without a calculator.
3	Developing	I can compute the product of two negative single digit integers, without a calculator.
2	Basic	I can compute the product of a positive and negative single digit integer, without a calculator.
1	Minimal	I can compute the product of the integers 0 - 9, for 60 problems in 1 minute, with no errors, without a calculator.
0	No Evidence	No evidence shown.

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4 I can compute the quotient of two integers with a multi-digit divisor, using long division.

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Learning Target	Descriptor	Definition
4	Proficient	I can compute the quotient of two integers with a multi-digit divisor, using long division.
3	Developing	I can compute the quotient of two integers using a single digit divisor when there is a remainder, without a calculator.
2	Basic	I can compute the quotient of positive or negative integers using a single digit divisor when there is no remainder, without using a calculator.
1	Minimal	I can compute the quotient of positive integers using a single digit divisor when there is no remainder, without using a calculator.
0	No Evidence	No evidence shown.

1.5 I can utilize the order of operations to correctly calculate the value of an expression which has multiple operations within it.

Learning Target	Descriptor	Definition
4	Proficient	I can utilize the order of operations to correctly calculate the value of an expression which has multiple operations within it.
3	Developing	I can use a calculator to find the square root of any integer and to square or cube any integer.
2	Basic	I can list the first 10 perfect square roots without using a calculator.
1	Minimal	I can list the first 10 perfect square numbers without using a calculator.
0	No Evidence	No evidence shown.

2. Fractions (20.00%)

Learning Targets

2.1 I can convert an improper fraction to a mixed number and write it in lowest terms.

Learning Target	Descriptor	Definition
4	Proficient	I can convert an improper fraction to a mixed number and write it in lowest terms.
3	Developing	I can convert a mixed number to an improper fraction and write it in lowest terms.
2	Basic	I can create equivalent fractions by multiplying by a version of one.
1	Minimal	I can rewrite a fraction in lowest terms.
0	No Evidence	No evidence shown.

2.2 I can multiply mixed numbers, improper fractions, proper fractions, and whole numbers and reduce to lowest terms.

Learning Target	Descriptor	Definition
4	Proficient	I can multiply mixed numbers, improper fractions, proper fractions, and whole numbers and reduce to lowest terms.

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Learning Target	Descriptor	Definition
3	Developing	I can multiply proper and improper fractions by a whole number and reduce to lowest terms.
2	Basic	I can multiply improper fractions and reduce to lowest terms.
1	Minimal	I can multiply proper fractions and reduce to lowest terms.
0	No Evidence	No evidence shown.

2.3 I can divide a proper fraction, improper fraction, or whole number by a mixed number by converting the mixed number to an improper fraction and multiplying by the reciprocal and write the answer in lowest terms.

Learning Target	Descriptor	Definition
4	Proficient	I can divide a proper fraction, improper fraction, or whole number by a mixed number by converting the mixed number to an improper fraction and multiplying by the reciprocal and write the answer in lowest terms.
3	Developing	I can divide mixed numbers by proper and improper fractions by multiplying by the reciprocal of the divisor and write the answer in lowest terms.
2	Basic	I can divide a proper and improper fractions and whole numbers by converting whole numbers to fractions and multiplying by the reciprocal of the divisor and write the answer in lowest terms.
1	Minimal	I can divide proper and improper fractions by multiplying by the reciprocal of the divisor and write the answer in lowest terms.
0	No Evidence	No evidence shown.

2.4 I can add mixed numbers which do not have common denominators by using the LCD and write the answer in lowest terms.

Learning Target	Descriptor	Definition
4	Proficient	I can add mixed numbers which do not have common denominators by using the LCD and write the answer in lowest terms.
3	Developing	I can add mixed numbers which have common denominators and write the answer in lowest terms.
2	Basic	I can add proper and improper fractions which do not have a common denominator by using the LCD and write the answer in lowest terms.
1	Minimal	I can add proper and improper fractions which have common denominators and write in lowest terms.
0	No Evidence	No evidence shown.

2.5 I can subtract mixed numbers which do not have common denominators by using the LCD and write the answer in lowest terms.

Learning Target	Descriptor	Definition

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Learning Target	Descriptor	Definition
4	Proficient	I can subtract mixed numbers which do not have common denominators by using the LCD and write the answer in lowest terms.
3	Developing	I can subtract mixed numbers which have common denominators and write the answer in lowest terms.
2	Basic	I can subtract proper and improper fractions which do not have common denominators by using the LCD and write the answer in lowest terms.
1	Minimal	I can subtract proper and improper fractions which have common denominators and write the answer in lowest terms.
0	No Evidence	No evidence shown.

2.6 **I can use an extended ratios to write an equation and solve for a given variable.**

Learning Target	Descriptor	Definition
4	Proficient	I can use an extended ratios to write an equation and solve for a given variable.
3	Developing	I can write and solve a proportion for a given scenario.
2	Basic	I can solve a given proportion using cross multiplication.
1	Minimal	I can compare two things by writing a ratio.
0	No Evidence	No evidence shown.

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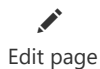
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3. Decimals (20.00%)

Learning Targets

3.1 I can rewrite a number to a specified place value when the number must be rounded.

Learning Target	Descriptor	Definition
4	Proficient	I can rewrite a number to a specified place value when the number must be rounded.
3	Developing	I can rewrite a number to a specified place value when the number must be truncated.
2	Basic	I can convert a number, written in words, to a number with each digit in the proper place.
1	Minimal	I can identify the place value of a digit within a number.
0	No Evidence	No evidence shown.

3.2 I can compute the quotient of two decimal numbers.

Learning Target	Descriptor	Definition
4	Proficient	I can compute the quotient of two decimal numbers.
3	Developing	I can compute the product of multiple decimal numbers.
2	Basic	I can compute the difference between decimal numbers.
1	Minimal	I can compute the sum of multiple numbers in decimal form.
0	No Evidence	No evidence shown.

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4. Percent (20.00%)

Learning Targets

4.1 I can convert a decimal to a fraction, fraction to a decimal, decimal to a percent, or a percent to a decimal.

Learning Target	Descriptor	Definition
4	Proficient	I can convert a decimal to a fraction, fraction to a decimal, decimal to a percent, or a percent to a decimal.
3	Developing	I can convert a percent to a decimal.
2	Basic	I can convert a decimal to a percent.
1	Minimal	I can convert a fraction to a decimal.
0	No Evidence	No evidence shown.

4.2 I can calculate the final price of an item after a sales discount has been applied and sales tax has been added.

Learning Target	Descriptor	Definition
4	Proficient	I can calculate the final price of an item after a sales discount has been applied and sales tax has been added.
3	Developing	I can calculate the price of an item after the sales discount is deducted.
2	Basic	I can calculate the final price of an item after sales tax is added.
1	Minimal	I can calculate the amount which will be charged for sales tax or the amount which will be discounted from a sale item.
0	No Evidence	No evidence shown.

4.3 I can compute single multipliers for increases and decreases, and compute the percent of increase or decrease for a situation.

Learning Target	Descriptor	Definition
4	Proficient	I can compute single multipliers for increases and decreases, and compute the percent of increase or decrease for a situation.
3	Developing	I can compute the percent of increase for a situation.
2	Basic	I can compute a single multiplier for a percent decrease.
1	Minimal	I can compute a single multiplier for a percent increase.
0	No Evidence	No evidence shown.

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5. Measurement (20.00%)

Learning Targets

5.1 I can convert between metric units.

Learning Target	Descriptor	Definition
4	Proficient	I can convert between metric units.
3	Developing	I can list the prefixes for the metric units in order from largest to smallest.
2	Basic	I can read a ruler or tape measure in centimeters and millimeters.
1	Minimal	I can read a ruler or tape measure down to 1/16th of an inch.
0	No Evidence	No evidence shown.

5.2 I can convert between the English/Standard units of area: square inches, square feet, and square yards.

Learning Target	Descriptor	Definition
4	Proficient	I can convert between the English/Standard units of area: square inches, square feet, and square yards.
3	Developing	I can convert between the English/Standard units of liquid measure: ounces, cups, pints, quarts, and gallons.
2	Basic	I can convert between the English/Standard units of dry measure: teaspoons, tablespoons, and cups.
1	Minimal	I can convert between the English/Standard units of length: inches, feet, yards, and miles.
0	No Evidence	No evidence shown.

5.3 I can convert between the metric and English/Standard units of weight: grams to ounces and pounds and ounces and pounds to grams.

Learning Target	Descriptor	Definition
4	Proficient	I can convert between the metric and English/Standard units of weight: grams to ounces and pounds and ounces and pounds to grams.
3	Developing	I can convert between the metric and English/Standard units of liquid measure: liters to cups and cups to liters.
2	Basic	I can convert between Fahrenheit and Celsius measures of temperature.
1	Minimal	I can convert between the metric and English/Standard units of length: inches to centimeters and centimeters to inches.
0	No Evidence	No evidence shown.

Submitted on 7/29/2022 by