

## Online Activities List/Description (2/7/24)

This document is a list of the current free and member activities on my math activities website. It includes:

- A description of the activities,
- The number and types of questions in each,
- The concepts covered in each.

To read some of the FAQs about the site, you can check out the [resource listed on TPT](#).

*\*\*Please note: this document will change as new activities are added. Feel free to download from time to time to check on new activities. If you have questions, please email me: [ellie@cognitivecardiomath.com](mailto:ellie@cognitivecardiomath.com)*

### 9 Free Activities

Visit the free page: <https://bit.ly/CognitiveCardioMathFree>



#### **Absolute Value 'Choice Board' (same questions each time)**

- Choice board with 16 questions, each with 2 answer choices
  - Compare absolute values
  - Identify absolute value
  - Evaluate expressions with absolute values

#### **Algebraic Expressions Flashcards (same questions each time)**

- 10 flashcards with 2 choices each
  - Choose algebraic expressions given a phrase
  - Choose phrase given expression
  - Evaluate, given a value for variable

#### **Area of Triangles Color by Number (same questions each time)**

- 10 questions – fill in the blank
- Mini-lesson pop-up about how to find area of triangle

#### **Coordinate Plane Choice Board**

- Choice board with 9 questions, some drag and drop, some multiple choice
- Each choice pulls from 2 questions in a question bank, so students can get some different questions if they do the activity more than once
  - Plot points in all quadrants (drag and drop)
  - Plot points and identify polygons (drag and drop)
  - Find area of polygons on coordinate plane (multiple choice)

#### **Decimal Ordering Number Line (same #s each time)**

- Drag 10 decimal numbers to the number line

## Free Activities Continued

### **Fraction, Decimal, Percent Matching (same #s each time)**

- Drag the number to its matching form.

### **Mean, Median, Mode Truth or Dare Sample**

- 12 questions available to try

### **Multiplying Decimals 'Choice Board' (same questions each time)**

- 9 questions – fill in the blank
- Multiply numbers up to thousandths place

### **Percent of a Number Jeopardy-type game (same questions each time)**

- Find part: 4 questions
- Find whole: 4 questions
- Find Percent: 4 questions
- Running point total on main screen

## **43 Member Activities (newest activities are at the end of this list)**

Visit the member page: <https://bit.ly/CognitiveCardioMathMember>

### **Absolute Value 'Choice Board' (pulls from bank of 36 questions)**

- Choice board with 12 Choices, each with 2 answer choices
- Each choice square pulls from 3 different questions; there are 36 questions total in activity, so there's a different mix of questions each time
  - Compare absolute values
  - Identify absolute values of numbers
  - Evaluate expressions with absolute values

### **Absolute Value Lesson and Quiz**

#### • **Mini-lesson**

- Pop-ups to review terms
- Matching activity
- Ordering Activity

#### • **30 self-checking 'Task Card' questions (same each time)**

- Compare/order absolute values
- Identify absolute value
- Evaluate with absolute values
- Some fill-in blank, some multiple choice

#### • **10-question Quiz**

- Multiple choice and fill-in (currently same questions each time, but will likely change to question bank so they'll be a little different each time)

### **Absolute Value Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Find absolute value
  - Compare and order absolute values
  - Complete operations with absolute value
  - Substitute and evaluate expressions

### **Algebraic Expressions Flashcards**

- 15 flashcards with 2 choices each
- Cards pull from bank of 36 questions – some different each time completed
  - Choose algebraic expressions given a phrase
  - Choose phrase given expression
  - Evaluate given a value for variable
- Points are tallied and shown as students complete each question
- Results slide showing total # correct, plus correct feedback & work shown for evaluating

### **Algebraic Expressions Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Translate algebraic expressions to words
  - Translate words to algebraic expressions
  - Evaluate algebraic expressions

### **Algebraic Equations Color by Answer**

- 10 question (pulls from bank of 40, questions, so will be a little different each time)
- Color appears in pattern when answers are correct
- Questions require students to:
  - Solve one-step equations with all operations
  - There are 2 answers that are negative and one that's a decimal; the rest are basic one-step equations

### **Area & Perimeter Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify how to find area and perimeter of squares and rectangles
  - Calculate area and perimeter of squares and rectangles
  - Compare areas and perimeters of squares and rectangles
  - Find length or width, given area or perimeter
  - Find missing side, given area or perimeter and one side length

### **Area of Triangles, Trapezoids, and Parallelograms, Jeopardy-type**

- 3 categories, with 4 point-value choices (100 – 400) in each
- Pulls from question bank of 48 questions (16 per category)
- Questions require students to:
  - Find area of triangles
  - Find area of trapezoids
  - Find area of parallelograms
  - Use fractions in calculations – dimensions use fractions in the 300 and 400 levels

### **Circles Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Determine whether definitions (radius, diameter, area, circumference) are true or false
  - Find radius, given diameter
  - Find diameter, given radius
  - Find area or circumference, given diameter or radius
  - Find radius or diameter, given area or circumference
  - Find area given circumference
  - Find circumference given area
  - Compare areas of circles
  - Compare circumferences of circles

### **Coordinate Plane Choice Board**

- Choice board with 12 questions, some drag and drop, some multiple choice
- Each choice pulls from 4 questions in a question bank (48 total questions)
- Questions require students to:
  - Plot points in all quadrants (drag and drop)
  - Plot points and identify polygons (drag and drop)
  - Find area of polygons on coordinate plane (multiple choice)
  - Determine missing points of polygons

### **Combining Like Terms Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify like/unlike terms
  - Combine like terms with addition and subtraction (no negative answers)

### **Decimal Concepts Jeopardy-type**

- Questions currently the same; will be changed to question bank
- 4 categories, with 4 point-value choices (100 – 400) in each
  - Round
  - Compare
  - Add
  - Subtract
- Running point total, shown after each question, on main screen

## Decimal Division Practice and Quiz

### Mini-lesson

- Items to click for meanings/examples
- Interactive activity
- **10 self-checking 'Task Card' questions (pull from a bank of 30 questions, so some questions will be different each time)**
  - Divide whole numbers by decimals
  - Divide decimals by whole numbers
  - Divide decimals by decimals
- **10-question Quiz**
  - Multiple choice (pulls from bank of 18 questions – some will be different each time)

### Decimal Operations Jeopardy-type

- 4 categories, with 4 point-value choices (100 – 400) in each
- Pulls from question bank of 64 questions (16 per category)
- Problems include operations with whole numbers and decimals up to thousandths
  - Add
  - Subtract
  - Multiply
  - Divide
- Running point total, shown after each question, on main screen

### Decimal Ordering Number Line

- Drag 10 decimal numbers into the correct order
- Students get 3 different number lines/sets of numbers each time they complete activity; there are 5 sets total, so will be a little different each time
- Numbers shuffle each time
- Point total (out of 30) shown on last slide

### Distributive Property Matching

- Short Review section of distributive property
- Pulls from 6 sets of matching; 6 items to match in each set
- Questions require students to:
  - Use the distributive property to find equivalent expressions

### Exponents Truth or Dare

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify definitions/meanings of exponents
  - Evaluate exponential expressions
  - Compare values of exponential expressions
  - Find missing exponents or bases
  - Convert exponential expressions to expanded form

### **Fraction, Decimal, Percent Matching**

- Buttons to select for students to review how to convert
- Drag nine numbers to their matching forms (fractions, decimals, percents)
- Includes numbers more than 100% and less than 1%
- Students get 3 matching sets each time; pulls from 6 sets so there are one or two different each time
- Point total (out of 30) shown on last slide

### **Fraction, Decimal, Percent Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify definitions and 'rules' for conversions
  - Identify correct conversions
  - Explain conversion processes
  - Convert fractions to decimals and percents
  - Convert decimals to fractions and percents
  - Convert percents to fractions and decimals

### **Fraction Operations Jeopardy-type Game**

- Pulls from question bank of 64 questions (16 per category)
- Tip box on each question page to help students with the processes
- Adding: 4 question categories (100-400 pts)
  - Adding fractions with like denominators (100)
  - Adding fractions with unlike denominators (200)
  - Adding mixed numbers to fractions (300)
  - Adding mixed numbers to mixed numbers (400)
- Subtracting: 4 questions categories (100-400 pts)
  - Subtracting fractions with like denominators (100)
  - Subtracting fractions with unlike denominators (200)
  - Subtracting fractions from whole or mixed numbers (300)
  - Subtracting mixed numbers from mixed numbers(400)
- Multiplying: 4 questions categories (100-400 pts)
  - Multiplying fractions by fractions (100)
  - Multiplying whole numbers by fractions (200)
  - Multiplying mixed numbers by fractions (300)
  - Multiplying mixed numbers by mixed numbers (400)
- Dividing: 4 question categories (100-400 pts)
  - Dividing fractions by fractions (100)
  - Dividing whole numbers by fractions (200)
  - Dividing fractions by whole numbers (300)
  - Dividing mixed numbers by mixed numbers(400)
- Running point total on main screen

### **Improper Fractions & Mixed Numbers Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify correct definitions
  - Identify improper fractions and mixed numbers
  - Compare mixed numbers and improper fractions (includes word problems)
  - Convert from one form to the other

### **Inequalities (Identifying and Graphing)**

- 20 questions; same each time
- Questions require students to:
  - choosing inequalities for given scenarios
  - choosing correct graph of given inequality
  - choosing correct inequality of given graph.

### **Integers (Adding & Subtracting) Lesson and Quiz**

- **Mini-lesson**
  - Examples for how to solve on the number line
  - Drag and drop practice: answer problems by dragging point to number line
- **10 practice questions:**
  - Multiple choice, pulling from 30 different questions, so some questions will be different each time
  - Add integers
  - Subtract integers
  - Solve a few word problems
- **10-question Quiz**
  - Multiple choice, pulling from 30 different questions, so some questions will be different each time

### **Integers (Multiplying & Dividing) Lesson and Quiz**

- **Mini-lesson**
  - Examples for how to solve on the number line
  - Drag and drop practice: answer problems by dragging point to number line
- **10 practice questions:**
  - Multiple choice, pulling from 30 different questions, so some questions will be different each time
  - Multiply integers
  - Divide integers
- **10-question Quiz**
  - Multiple choice, pulling from 30 different questions, so some questions will be different each time



### **Mean, Median, Mode, Range Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify correct methods for finding mean, median, mode, range
  - Find mean, median, mode, range, given data set
  - Find missing numbers in data set, given other data points and measure of center
  - Identify outliers

### **Multiplying Decimals 'Choice Board'**

- 9 question choices; each choice pulls from a set of 3 problems, so 27 total problems in activity; will be a little different each time it's completed
- Questions are fill-in-the-blank
- Questions range from whole numbers times numbers with tenths, to numbers with hundredths times numbers with thousandths
- Points accumulate with correct answers; shown on main screen

### **Multiplying Fractions Pixel Art Color by Answer**

- 12 questions (same each time)
- Questions require students to:
  - Multiply fractions by whole numbers
  - Multiply fractions by fractions
  - Multiply fractions by mixed numbers
  - Multiply mixed numbers by mixed numbers

### **Order of Operations Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify order of operations rules
  - Evaluate expressions that include exponents
  - Evaluate expressions that include grouping symbols
  - Evaluate expressions, given a value for a variable

### **Percent of a Number Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Find part, percent, or whole
  - Find tax and tip
  - Solve word problems

### **Percent of a Number Jeopardy-type Game**

- Pulls from question bank of 48 questions (16 per category)
- Find part: 4 question categories (100-400 pts)
- Find whole: 4 questions categories (100-400 pts)
- Find Percent: 4 questions categories (100-400 pts)
- Running point total on main screen

### **Prime Factorization Choice Board**

- 20 questions – currently the same questions each time; question bank to be created
  - Identifying prime factorization of numbers
  - Finding numbers, given the prime factorization
- Score 'thermometer' is on main screen

### **Probability Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Determine the likelihood of a single event
  - Determine the correct probability of an event
  - Identify probability as a percent change
  - Find probabilities of compound events
  - Express probability as a percent, decimal, or fraction
  - Identify correct definitions of vocabulary terms

### **Properties Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify commutative, associative, distributive and identity properties
  - Apply commutative, associative, distributive and identity properties

### **Ratios & Proportions Practice and Quiz**

- **Mini-lesson**
  - Items to click for meanings/examples
  - 2 drag and drop matching activities
  - Unit rates word problems – drop-down matching
- **10 self-checking 'Task Card' questions (pull from a bank of 30 questions, so some questions will be different each time)**
  - Identify ratios
  - Identify equivalent ratios
  - Find unit rates
  - Solve proportions
- **10-question Quiz**
  - Multiple choice (pulls from bank of 18 questions – some will be different each time)

### **Ratios & Proportions Truth or Dare**

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify ratios, rates, and unit rates and definitions of each
  - Identify equivalent ratios
  - Solve word problems that require finding ratios, rates, and unit rates
  - Solve simple proportions

### **Slope Color by Answer**

- 2 coloring patterns
- 10 question choices for each pattern (pulls from 35 different questions, so will be a little different each time)
- Color appears in patterns when answers are correct
- Questions require students to:
  - Find slope given 2 points
  - Find slope given graph of a line
  - Identify correct definitions of vocabulary
  - Identify lines as having positive, negative, zero, undefined slopes

## Surface Area Practice and Quiz

### Mini-lesson

- Items to click for meanings/examples
- 2-3 interactive activities
- **10 self-checking 'Task Card' questions (pull from a bank of 30 questions, so some questions will be different each time)** *These questions have 'tip' buttons to select for a reminder of how to find the SA for the shape in that question.*
  - Find the surface area of rectangular prisms/cubes
  - Find the surface area of cylinders
  - Find the surface area of triangular prisms
  - Find the surface area of square pyramids
  - Find side length of a cube, given the surface area.
  - Solve word problems that require finding surface area of various shapes
- **10-question Quiz**
  - Multiple choice (pulls from bank of 18 questions – some will be different each time)

### Triangles Truth or Dare

- 36 questions – 18 Truth and 18 Dare
- T/F and multiple choice; same questions each time
- Points are tallied and shown as students complete each question
- 'Answer sheet' at the end shows which questions were correct/incorrect
- Questions require students to:
  - Identify triangles by type (acute, obtuse, right, isosceles, equilateral, scalene)
  - Find missing angles or sides
  - Determine whether a shape can be a triangle based on angle measures or side lengths.

### 6<sup>th</sup> Grade Math Review

- Jeopardy-type
- Questions pulled from question bank of more than **80 questions**
- 5 categories each with point-value choices 100-400:
  - Ratios & Proportions
  - Number System
  - Expressions & Equations
  - Geometry
  - Statistics & Probability
- Running point total on main screen

### 7<sup>th</sup> Grade Math Review

- Jeopardy-type
- Questions pulled from question bank of more than **80 questions**
- 5 categories each with point-value choices 100-400:
  - Ratios & Proportions
  - Number System
  - Expressions & Equations
  - Geometry
  - Statistics & Probability
- Running point total on main screen

### **Newest Additions to Site:**

#### **Percents, Discounts, Tips, Tax, Commissions Choice Board**

- Choice board with 12 questions
- Each choice pulls from 3 questions in a question bank (36 total questions)
- Questions require students to:
  - Find sale prices
  - Find discounts
  - Find tax
  - Find tip
  - Find commissions
  - Find markup rate
  - Find percent increase
  - Find percent decrease
  - Find original price

#### **Multiplication and Division Fact Practice**

- 2 sets of multiplication facts with 25 questions each
- 2 sets of division facts with 25 questions each
- Questions are different each time, pulling from a total of 280 fact questions

#### **Addition and Subtraction Fact Practice**

- 2 sets of addition facts with 25 questions each
- 2 sets of subtraction facts with 25 questions each
- Questions are different each time, pulling from a total of 220 fact questions

# THANK YOU!

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## ABOUT THE AUTHOR

I (Ellie) taught in the classroom for nearly 25 years at both the middle school and elementary levels, teaching 2<sup>nd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> grades. I earned my master's degree in technology in education and have also worked in the e-learning field for over 5 years. I love helping students discover the 'why' in math and help facilitate teachers in that process as well. I'm so honored that my resources have been used by hundreds of thousands of students!

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