

BEFORE...

EXPLAIN the problem to myself.

MAKE A PLAN to solve the problem

- *What is the question?*
- *What do I know?*
- *What do I need to find out?*
- *What tools/strategies will I use?*

DURING...

PERSEVERE (Stick to it!)

MONITOR my work

ASK myself, "Does this make sense?"

CHANGE my plan if it isn't working out

AFTER...

CHECK

- *Is my answer correct?*
- *How do my representations connect to my solution?*

EVALUATE

- *What worked/didn't work?*
- *How was my solution similar or different from my classmates'?*

Practices that indicate a lack of support for mathematics literacy:

- Complete the textbook
- Lack of interest in collecting/presenting data
- Focus on Procedure not Process
- No connection to the real world
- Facts in Isolation
- Math as its own subject

Where do we use math?

- ❖ Shopping
- ❖ Sports Statistics
- ❖ Nutrition
- ❖ Travel
- ❖ "Best Bets"
- ❖ Weather
- ❖ Cooking
- ❖ Banking
- ❖ Designing Spaces
- ❖ Scheduling/Time
- ❖ Picking out our Clothes
- ❖ Laundry

Seven Strands of Math

Numeration & Counting

Say, Read, Write Numbers - Count
Patterns, Place Value, Whole Numbers,
Fractions **Operations** Number Facts,
Fact Families

Problem Solving & Mental Math

Puzzles, Brain Teasers, Riddles

Data Collection

Graphs, Tables, Charts, Glyphs

Geometry

2 & 3 Dimensional Shapes

Measure/Reference

Width, Length, Area, Weight
Clock, Calendar, Time Lines,
Ordinal #'s

Money

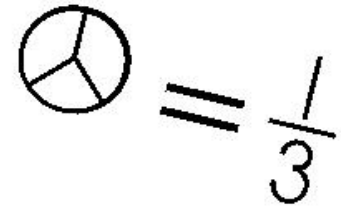
Value of Coins, Count, Problem
Solve

Rules/Patterns

Relationships, Sequence, Functions



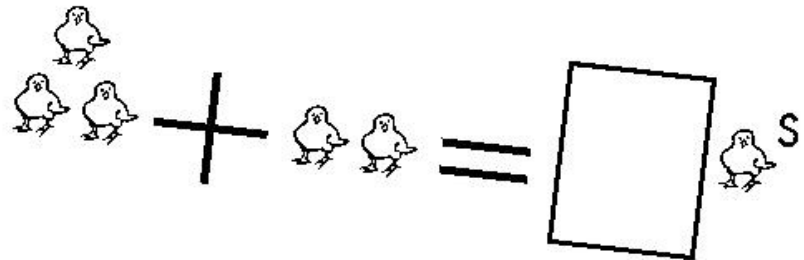
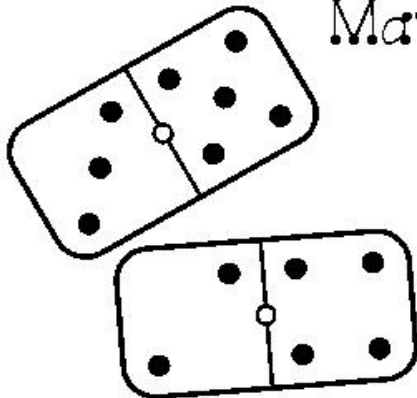
Math



Journal



Math Smartie _____

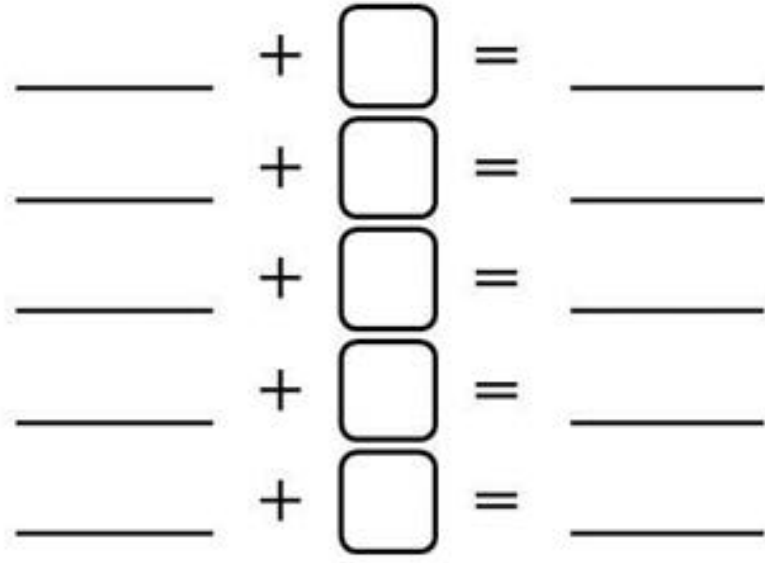
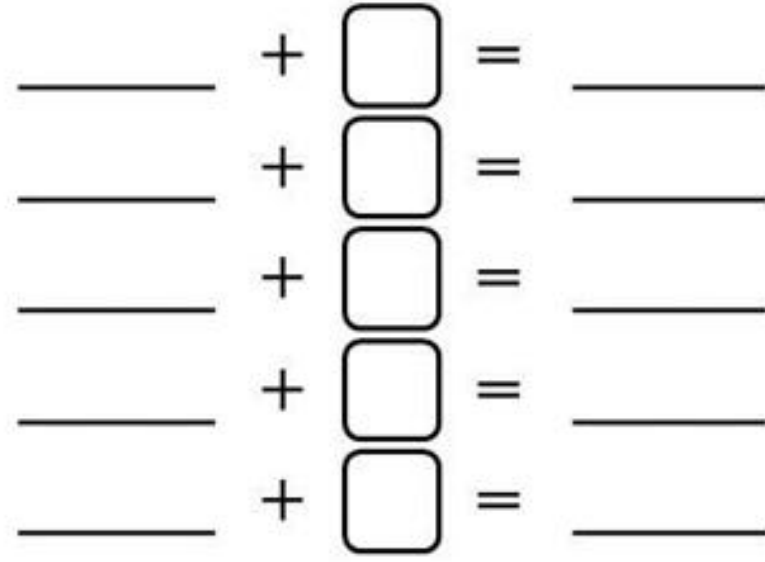
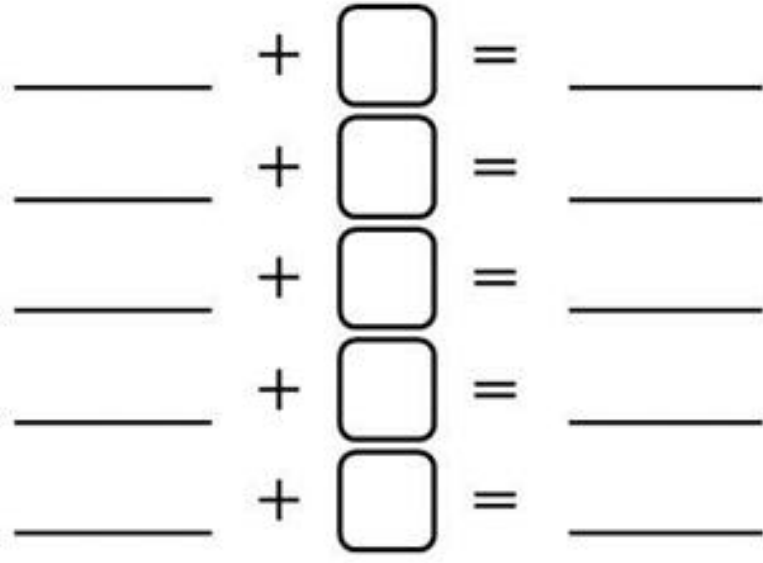
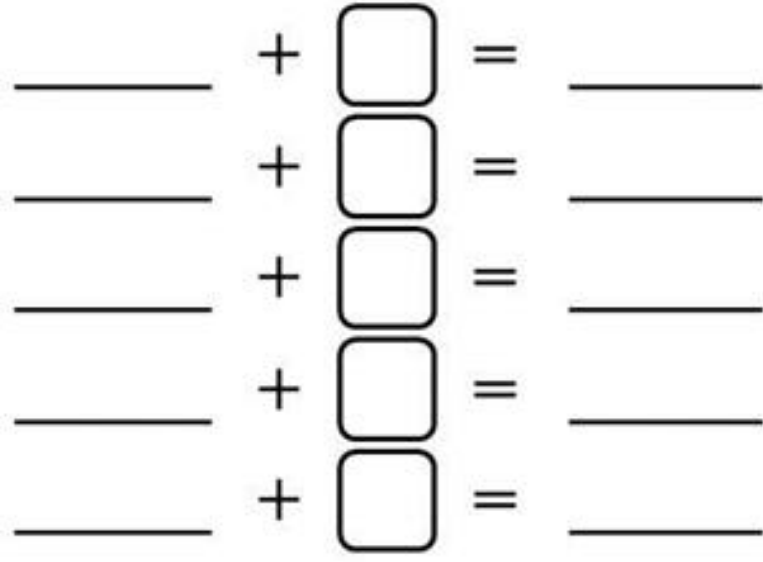


Draw a Story Problem

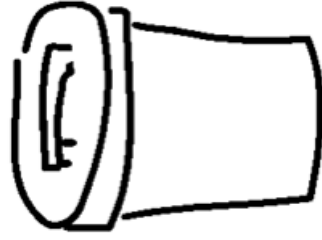
Draw a picture of your story problem.

Write your story problem.

A rectangular area defined by a thick dashed border, containing seven horizontal lines for writing a story problem.



Place Value Faceoff



Trash

Hundreds

Tens

Ones





_____ Number Deal

Partners _____ & _____

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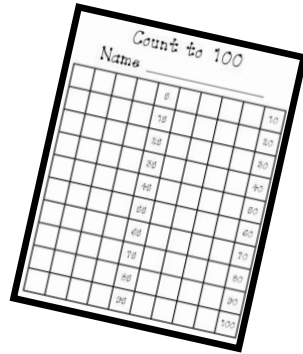
Number

Which one is
_____?

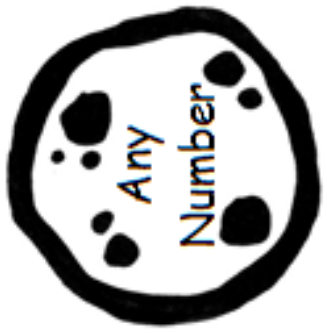
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Number

Chart Games





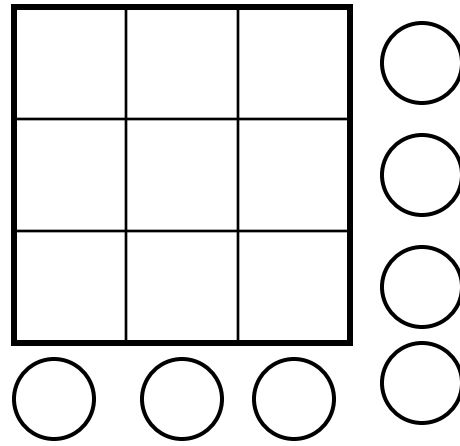
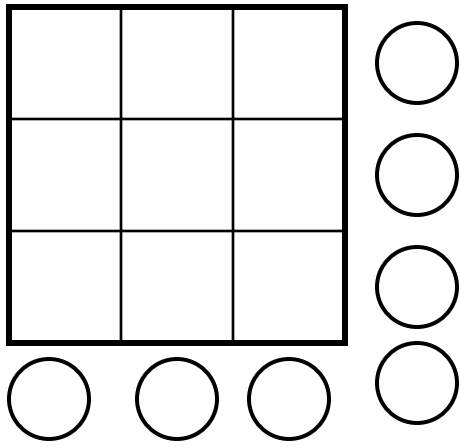
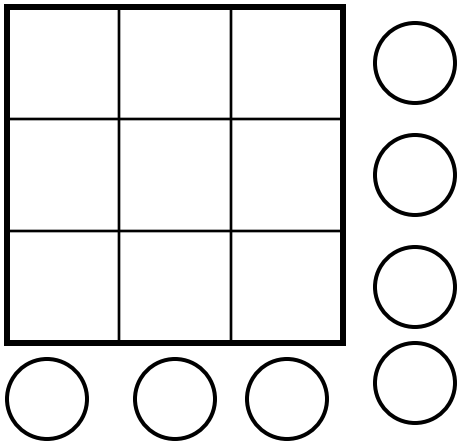


Cross-Out Singles

Object: To cross out any single sum and then find the total of the sums not crossed out.

Materials: dice

Directions: Choose a partner. Take turns rolling the die and recording your roll on your answer sheet in any square you choose. Once all nine squares are filled, find the sums of the rows, columns, and diagonal, and record them in the circles. Any sum that appears only once is crossed out. The total of the sums that are not crossed out is the score for the first round. Once you and your partner play all three games, add the total of the score for all three rounds. This is your final score.

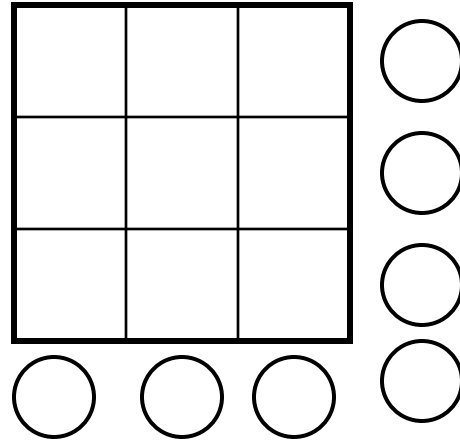
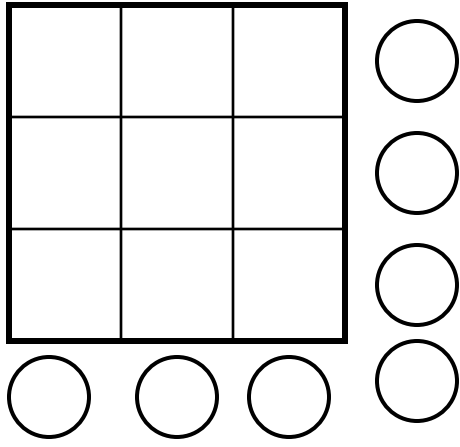
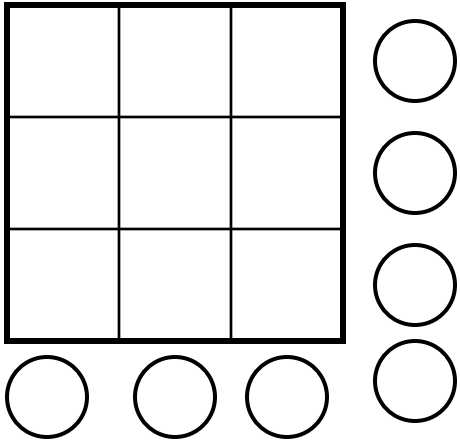


1 _____

2 _____

3 _____

Total _____



1 _____

2 _____

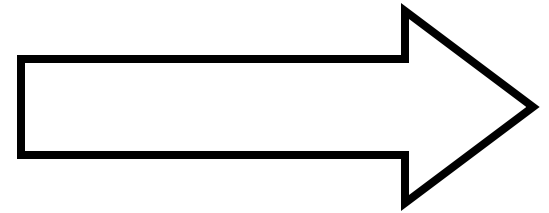
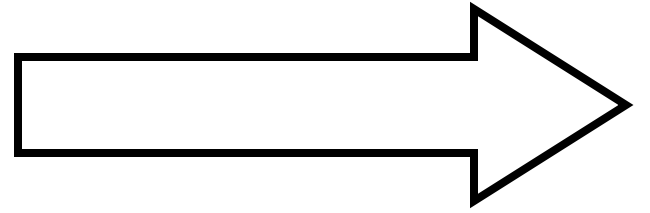
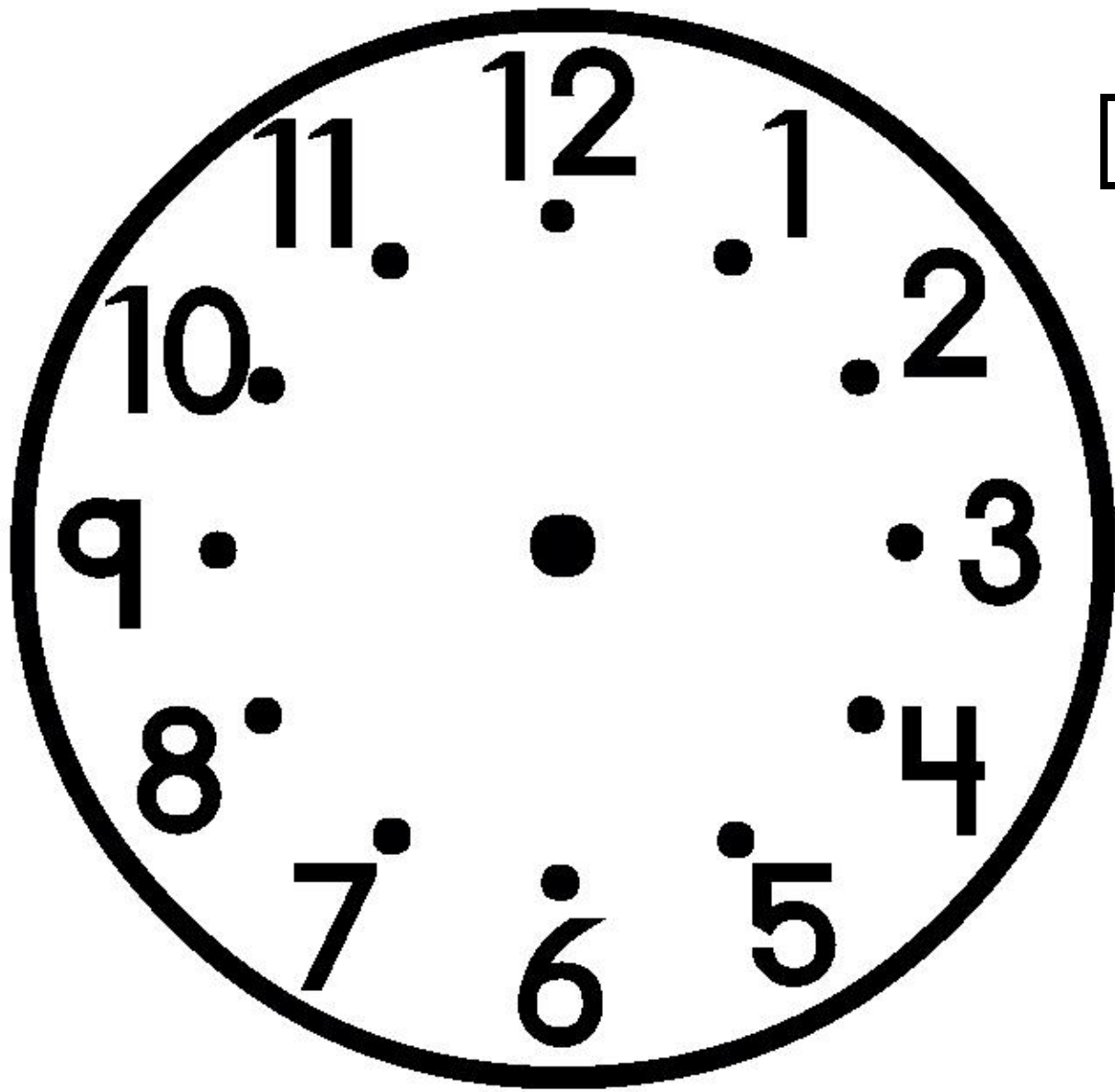
3 _____

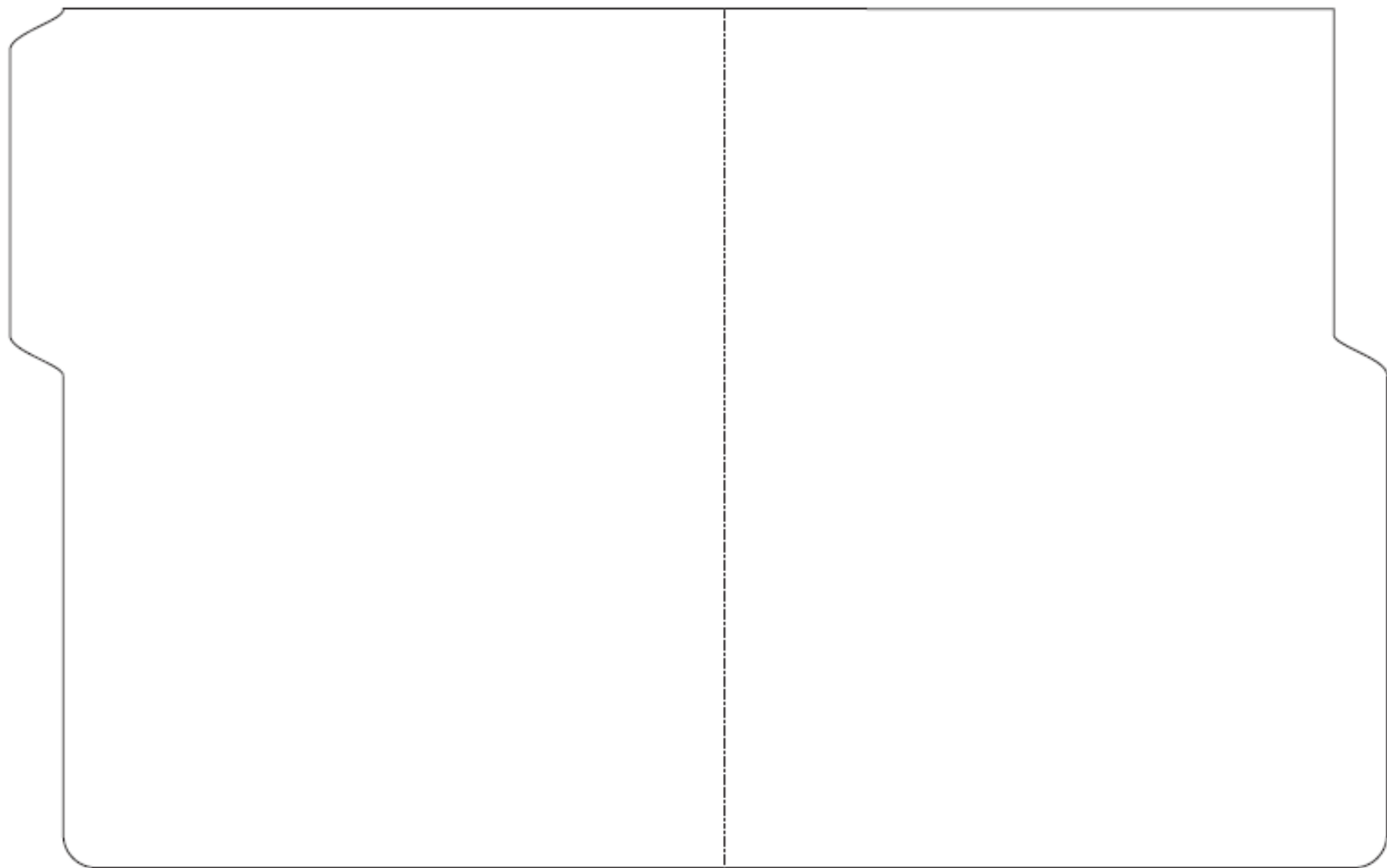
Total _____

Math Vocabulary

K	1	2	3
<p>Above Add Attribute Bar Graphs Behind Below Beside Bottom Calendar Clock Circle Create Dime Down Eight Extend Five Four Friday In Front Of Join Less Monday Money More Next To Nickel Nine Numeral On One Over Patterns Penny Pictographs Predict Quarter Rectangle Same Saturday Separate Seven Shapes Six Square Subtract Sunday Ten Three Thursday Top</p>	<p>Add Addend After And (+) Before Between Capacity Closer Eleven Empty Set Equals (=) Equal To Facts Fall Farther Fifth First Fourth Greater Than (>) Half How Many Fewer? How Many More? Hundred Length Less Than (<) Minus (-) Numerals Place Holder Plus Same As Second Spring Subtract Sum Summer Tables Take Away Tally Marks Temperature Third Twelve (to 20) Weight Whole Numbers Winter</p>	<p>Addend Analyze Data Area Attributes Capacity Cone Cylinder Dollar Equal Parts Equal To Expanded Form Fewer Fourth Greater Than (>) Growing Patterns Halves How Many Less Than (<) Numerals Ordinal Numbers Out Of Parallelogram Perimeter Pictographs Place Sphere Sum Symmetry Thirds Thousand Value Whole Numbers</p>	<p>1/4 Hour 1/2 Inch Acute Angle Addend Algorithm Area Bar Graphs Capacity Centimeter Certain Compare Congruent Cup Customary Data Decimal Notation Denominator Difference Digit Edges End Points Estimates Equals (=) Equally Likely Equation Equivalent Even Expanded Form Expression Faces Factor Fahrenheit Foot Greater Than (>) Growing Patterns Identify Property of Addition Impossible Inverse Operations Less Than (<) Lines Lines of Symmetry Line Segments Meter Metric Nets Number Line Numeral Numerator Numeric Representations Obtuse Angle Odd</p>

Word	Description
Sentence	Real-Life Examples





Piggy in the Mud



Piggy in the Mud



Piggy in the Mud



Don't be Greedy!











Don't be Greedy!











Don't be Greedy!







Side	Back	Fours	Snout
			

Side	Back	Fours	Snout
			

Side	Back	Fours	Snout
			

Side	Back	Fours	Snout
			

Side	Back	Fours	Snout
			

Side	Back	Fours	Snout
