

Mindful MATH

Proud to Be Primary

Data & Probability

The image displays a collection of educational materials for a 2nd-grade math curriculum. The central focus is a yellow binder with a silver ring, containing a worksheet titled "Mindful MATH 2nd Data & Probability - Lesson 4". The worksheet includes a section for "Name:" and a "BAR GRAPH PICTURE COUNT RECORDING SHEETS" activity. The activity consists of two bar graphs, A and B, and a set of questions.

Graph A: CRAYONS

Color	Count
Green	8
Pink	5
Yellow	3
Blue	2

Graph B: SCHOOL

Item	Count
Scissors	2

Questions and Answers:

- How many green? 8
- How many pink? 5
- How many crayons in total? 24
- What color crayon is the most of? green
- What color crayon is the least of? yellow
- How many more blue crayons than yellow crayons? 3

Other materials visible include "Picture Card A" showing various school supplies, a ruler, and several worksheets with colorful borders and math problems. One worksheet asks "What pet would you choose?" and another asks "What snack do you like best?".

2nd Grade Comprehensive Math Curriculum

Mindful MATH



Data & Probability

What is Included in this Comprehensive Unit:

- ♥ A month's worth of instruction
- ♥ Standard-based lessons
- ♥ 8 detailed lesson plans
- ♥ Differentiated practice worksheets
- ♥ Warm-up task cards
- ♥ Mental Math flash cards
- ♥ Math journal prompts
- ♥ Math games
- ♥ Math centers
- ♥ Three assessments: Quick Check task cards, pre-tests & post-tests for every lesson

Mindful MATH - Data & Probability
Lesson 1: Tally Charts

What snack do you like best?

5
4
3
2

What do you notice the graph?
What type of graph?
How many people like apples?
How many people like cookies?
Which was the most?

I can execute a plan to gather data and create a graph to display it

FAVORITE ANIMAL

Create a plan that involves asking a question and surveying people to gather data. Read the data and display it on a graph. Describe the results.

Rock, Paper, Scissors

Play the game with a partner for 20 rounds. Record your wins, losses, and draws on tally marks and fill in the bar graph.

Rock, Paper, Scissors

WIN
LOSS
DRAW

Number of Times

10	
9	
8	
7	
6	
5	
4	
3	
2	
1	
0	

Spring Activity

Bike Riding: 5
Flying Kites: 2
Playing at Park: 3
Kissing: 4

Current Mood

Happy: 6
Sad: 2
Tired: 4
Bored: 5

Mindful MATH Task Card #1

Think of a yes or no question to ask the class. Ask 10 people to answer. Record answers with a tally.

Mindful MATH Task Card #2

Draw a pie chart with different sized parts. Color the biggest part red, the smallest on blue, and the medium yellow. Give them labels.

Bar Graph

A bar graph uses bars to represent data collected.

Favorite Pet

5			
4			
3			
2			
1			

Our Class Surveys

Draw and label the sections on the pictograph given the information below.

FAVORITE SEASON

KEY:

winter = 4 people summer = 6 people
spring = 8 people fall = 10 people

Our Class

Draw and label a pictograph with the following data:

Fruit: 5 apples, 6 oranges, 3 bananas, and 4 strawberries.

Mindful MATH Task Card #4

Draw a pie chart with different sized sections and label with the holidays in order of preference: Christmas, Easter, and Halloween.

Mindful MATH Task Card #3

Draw and label a pictograph with the following data:

Fruit: 5 apples, 6 oranges, 3 bananas, and 4 strawberries.

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Data & Probability

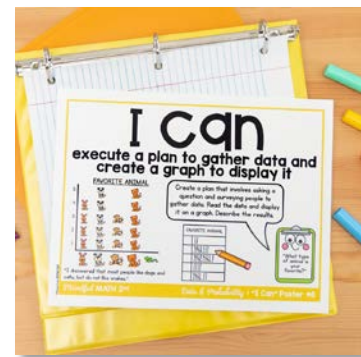
What's included in this 400+ page unit:

Detailed Lesson Plans

Booklists

Posters & Materials

Mindful MATH - Data & Probability Lesson 1 Tally Charts	
Opening Activities	Lesson objectives, Task Card #1 with paper and markers, Complete, Count, Record #1 on a dot marker, add/deduct, or a probability (PDF/DOC), Five for Four #1 on a dot marker, add/deduct, or a probability (PDF/DOC), Five for Four #2 on a dot marker, add/deduct, or a probability (PDF/DOC)
Mental Math	Are you more precise? Name 100 items and put 100 items in 100 categories to get 100 tally marks. There are 100 items in all. Do they come in groups of 10?
Whole Group Lesson	Teacher will discuss record card with 100 items. Teacher will explain that we will collect information (data) by asking questions (What is your favorite color?) recording it on a tally chart to find the total, and answering questions. Question that one way to collect data is with tally marks. Show students how to write tally marks for numbers 1 to 20. Students use information to write tally marks for numbers given orally (for practice). When a class tally chart is made with the data, Teacher Color and answer key (Color and answer key) are provided. (Color and answer key) are provided. One each student in Teacher Color recording sheet to fill out. Students will record a tally mark each time a paper strip is in their hands. Complete it on the class graph while students record on their own sheets. Count the number for each and record. Answer questions related to the graph.
Independent Practice	Students complete the practice question (given orally) using options for each #1 to 10 following the direction on top of each page.
Hands-On Activities	CEDEK #1 Tally Chart Data Card #1 - Fill in tally marks for given data on task card or CEDEK #1 Task Card - Choose data from completed tally charts. ACTIVITY: Complete the survey record cards by collecting tally marks.
Quick Checks	Read and have students complete Quick Check #1 and/or #2 and record (1) on record cards with tally marks and (2) on record cards with tally marks.
Lesson Goal	Survey and record data with tally marks.
Questions	How do you represent tally marks to 20? How many tally marks do you use to represent 10? What information does the tally chart give you?
Lesson Materials	Task Card #1 Student recording sheets to 200 Journal Prompt #1 Class & Individual Tally Charts Student Math-out #1 Task Card #1 Teacher Color and answer key #1 Survey record cards



Task Cards

Math Journals

Mental Math Cards



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Data & Probability

What's included in this 400+ page unit:

Worksheets



Survey Book



Hands-On Activities



Assessments



Answer Keys

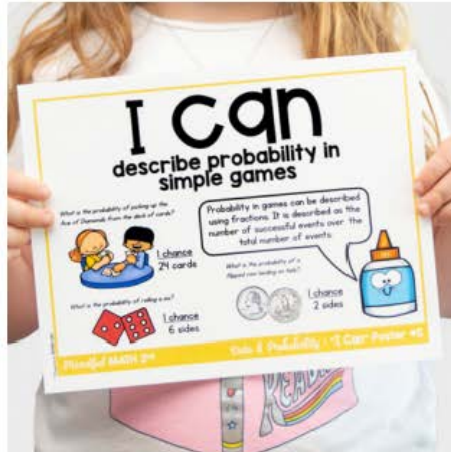


Centers



This Mindful MATH unit covers

- ♥ Tally charts
- ♥ Pie charts
- ♥ Pictographs
- ♥ Bar graphs
- ♥ Line plots
- ♥ Graphing project
- ♥ Probability in everyday situations
- ♥ Probability in simple games



Mindful MATH

HAS WHAT TEACHERS LOVE!

- This ONE math curriculum unit is all you need to teach this math concept and meet the standards.
- Use the lesson and follow-up activities to cover your math block each week.
- The unit easily extends to an entire month of instruction.
- It covers standards and skills that Second Grade students need to learn before Third Grade!
- It saves you time as the planning is done for you!
- Make math FUN with a variety of activities.
- Keep kids engaged and help them build important math skills and fluency!
- You will have ALL the materials you need to successfully teach (with no need to supplement)!



Teachers Love Mindful MATH

Proud to Be Primary







MATH

Tara M.



I have loved using this for our math block with my second graders! I can let them do the centers individually or with a buddy. Worksheets are great for independent work, or to be sent home for homework. I love the teacher guide - I printed them and put them in my curriculum binder. Great resource!

Our math units are enjoyed in thousands of classrooms worldwide!

vanilla 	
strawberry 	
mint 	

Mindful MATH



See a Lesson Plan Up-Close

Quick, independent warm-up activities.

Mental math cards help build fluency.

Lesson can be easily broken down into mini-lessons and small-group instruction.

Use the lesson goal to guide the lesson.

Teach important math vocabulary.

<i>Mindful MATH</i> - Data & Probability		
Lesson 1 : Tally Charts		
Opening Activities	Students complete Task Card #1 with paper and markers. Complete Journal Prompt #1 on a chart, on mini whiteboards, or in notebooks. OPTIONAL: Pre-test.	
Mental Math	As a whole class, practice Mental Math cards set #1 (tally marks to 20). Call on students to call out how many tally marks there are as fast as they can.	
Whole Group Lesson	<ul style="list-style-type: none">*Teacher introduces lesson goal with "I Can..." poster #1. Explain that we will collect information (data) by asking a question ("What is your favorite color?"), recording it on a tally chart next to that color.*Explain that one way to collect data is with tally marks. Show and review how to write tally marks for numbers 1-20. Students use whiteboards to write tally marks for numbers given.*Draw a blank tally chart on a chart with 6 rows (using pieces of paper) and categories (blue, red, yellow, pink, purple, orange).*Students will record a tally mark each time a peer says it is their favorite. Complete it on the class graph while students record on their own sheets. Count the number for each and record. Answer questions related to the results.	
Independent Practice	Students complete the initial practice pages provided (7 page options for lesson #1) by following the directions on top of each page.	
Hands-On Activities	CENTER #1: Tally Chart Data Cards - Fill in tally charts given data on task cards. CENTER #2: Tally Time - Use data from completed tally charts. ACTIVITY: Complete tally survey mini-book pages by collecting tally marks.	
Quick Checks	Meet with students to complete Check Check #1 and/or a post-test assessment. (I can record data with tallies and describe data on tally charts).	
Lesson Goal	Questions	Lesson Materials
Survey and record data with tallies. Describe data on tally charts.	How do you record data? How many tallies? How do you organize the data on a tally chart? What information does the tally chart give us?	Task Card #1 Paper & markers Journal Prompt #1 Pre & Post tests Mental Math set #1 "I Can" poster #1 Anchor chart & pieces Mini boards & markers
Vocabulary		Student recording sheet Practice pages Data Cards Tally Charts Task Cards Survey mini-book
survey, data, title, tally mark, chart, category		Quick Check #1

Lessons for the whole group include teacher part and student practice of skills.

Differentiated practice pages build understanding of concepts.

Hands-on math activities, games, and centers build math fluency.

Three assessment options included.

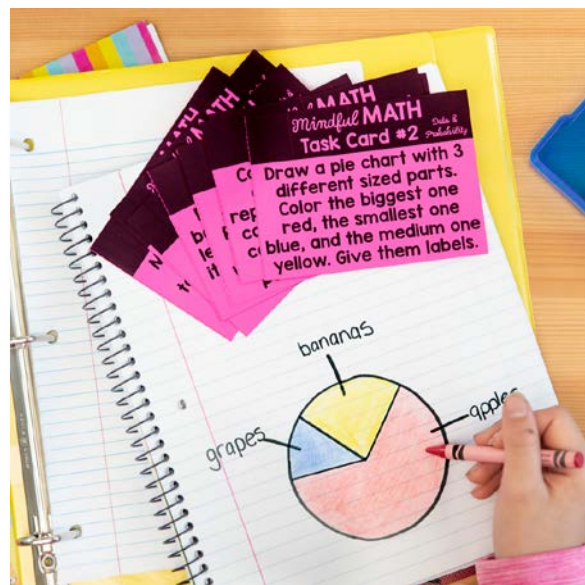
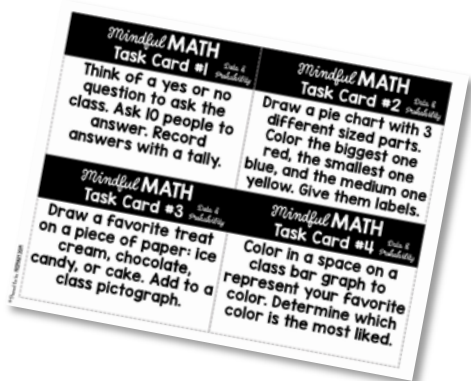
Helpful literature connection.

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Warm-Up Task Cards

Task cards are a great warm-up to your math block. They provide a fun way to review and practice the skills taught in the lessons. Have students work independently, with a partner, or as a group to complete a quick math task using math manipulatives. Simply provide the prompt or task cards to get started!



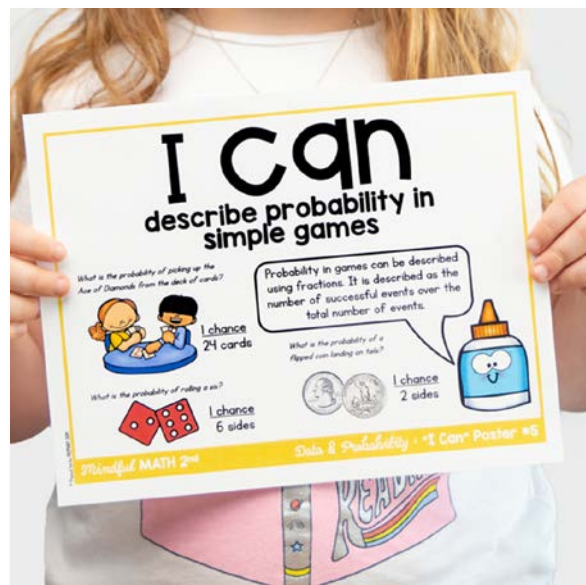
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"I Can" Posters

Concept posters are included for every lesson in this unit.

They clearly describe and illustrate the mathematical concept in the lesson. They are helpful to lead your lesson and as a visual reminder for students. Read the prompts to students, discuss, and then replicate the examples together.

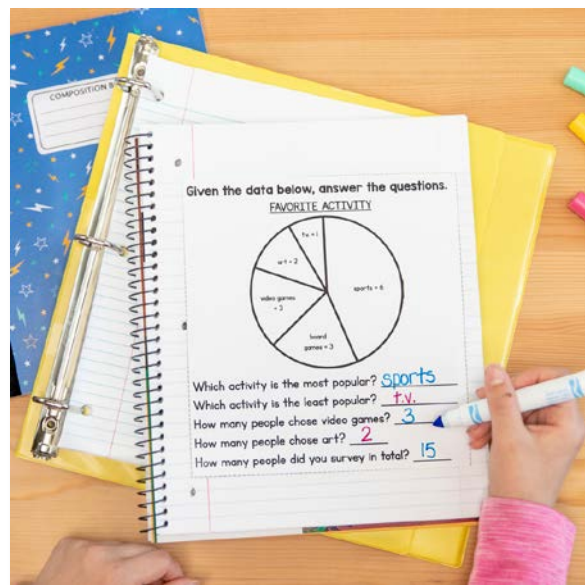
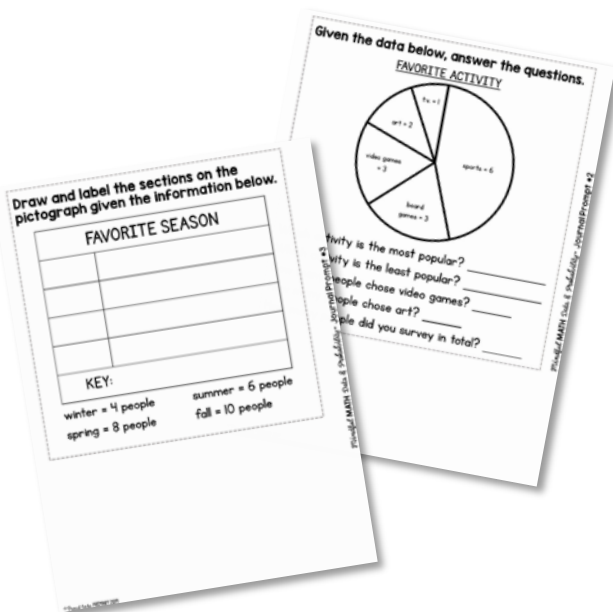


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Math Journals

After each lesson, provide each student with a math journal prompt to review the concept taught. Have students complete the math journal prompt independently and show their work and understanding in a notebook. No more coming up with engaging prompts; these are done for you!



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Mental Math Flashcards

Mental Math flashcards help build a child's mental math ability and fact fluency. Each lesson includes a creative way to use the cards, such as games, fact recall, and student call-out activities. These cards are also great to use as independent and small group review. Simply put them in a box for students to grab!



Mindful MATH



Practice Worksheets

Each lesson includes differentiated worksheets for your students to practice their math skills. Select the no-prep worksheets you wish for your students to complete, and then assign. These versatile pages are engaging, straightforward, and fun to complete.

Name: _____

Mindful MATH 2nd
Skill 4 Probability - Lesson 4

DIRECTIONS: Look at the data given on the bar graph. Record the data and answer the questions.

Bedroom Items	How Many?
5	
4	
3	
2	
1	

What is a question that could be asked? _____

What did you find out? _____

Which item is there the MOST of? _____

Which item is there the LEAST of? _____

Mindful MATH 2nd
Skill 6 Probability - Lesson 2

DIRECTIONS: Look at the data given on the tally chart. Color in the pie chart with a different color for each clothing item. Answer the questions.

Clothing	Tally
Shirts	
Shoes	
Shorts	

What question that could be asked? _____

What did you find out? _____

Which clothing is there the MOST of? _____

Which clothing is there the LEAST of? _____

Rock, Paper, Scissors

Describe the probability of the game. After the game, analyze the results, answer questions, and record the probability.

What is the probability BEFORE?

Throw a rock? $\frac{1}{3}$

What is the probability AFTER?

not throw paper? $\frac{2}{3}$

How many wins? 10

How many losses? 7

How many draws? 3

Who won the most? paper

Who lost the most? rock

Who drew the most? me

Who was the best partner? partner





Play the game with a partner for 20 rounds. Record your wins, losses, and draws as tally marks and fill in the bar graph.

Rock, Paper, Scissors	Number of Turns
WIN	10
LOSS	7
DRAW	3

Name: _____

DIRECTIONS: Read the word problem below. Record the data on the tally chart and bar graph. Answer the questions

On the teachers desk, there are 3 mugs, 2 staplers, 7 pens, and 1 pair of scissors. How many items are on the desk in total?

On the Teacher Desk				
8				
7				
6				
5				
4				
3				
2				
1				

What is there the most of?

What is there the least of?

How many items are there in total?

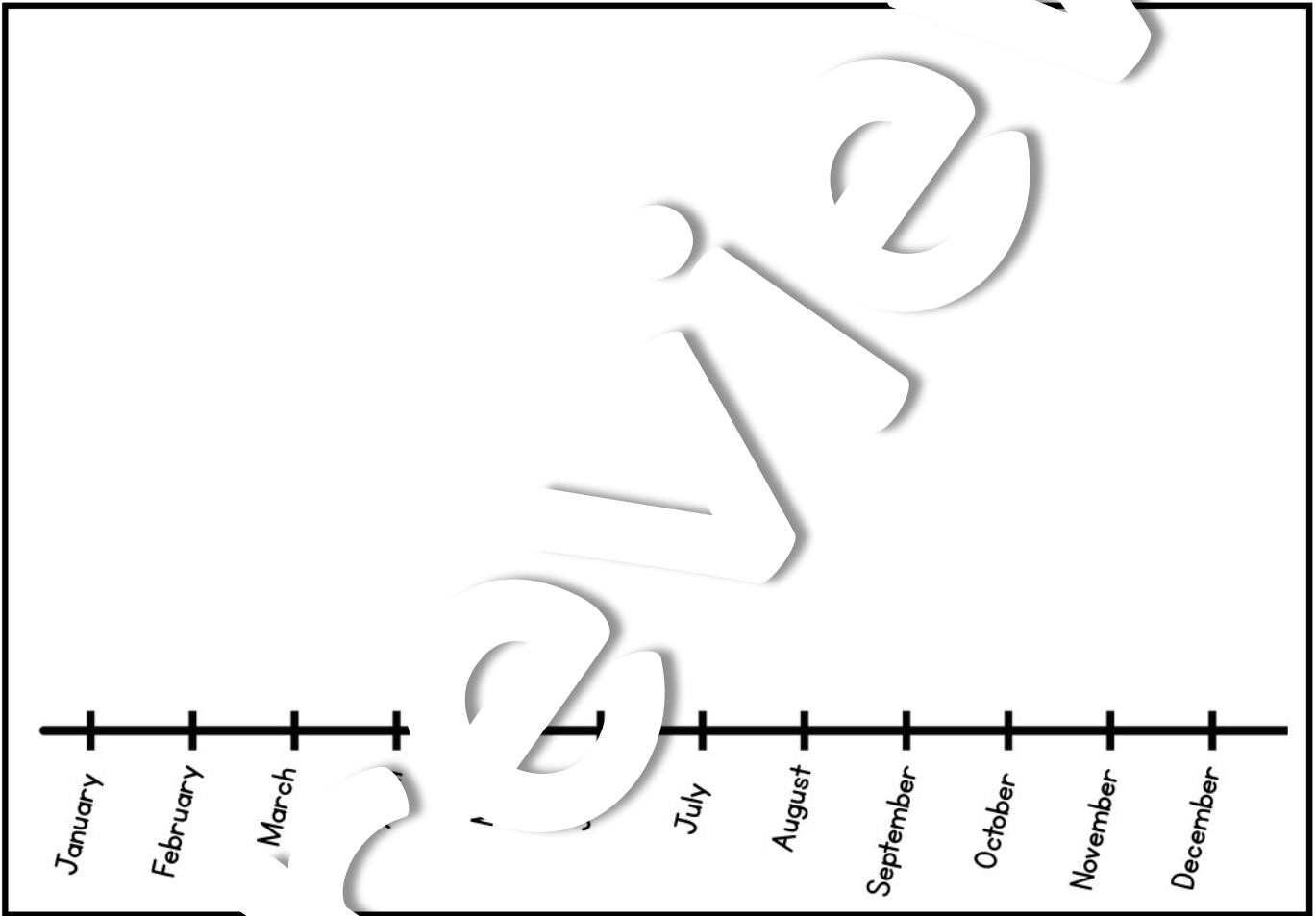
Record an addition equation:



Name: _____

DIRECTIONS: Ask and record data as an X on top of the month. _____ the number line. After the survey is complete, analyze the data, and answer questions.

Month of Birthdays



How many birthdays were recorded? _____

What is the month with the least birthdays? _____

What is the month with the most birthdays? _____

What was the first month of the year that has a birthday? _____

_____ the last month of the year? _____

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Math Centers & Games

There are a variety of fun and engaging math activities included for every lesson. These hands-on activities encourage focused math practice. They are great for small groups, partner games, and math centers. You will have the materials and instructions to implement the activities quickly and easily!

Rock, Paper, Scissors
Describe the probability of the game. After the game, analyze the results, answer questions, and record the probability.

Describe the Probability BEFORE
What is the probability that someone will throw a rock? _____
What is the probability that someone will not throw paper? _____
Describe the Probability AFTER
How many times was rock thrown by your partner? _____

Game Results
How many wins? _____
How many losses? _____
How many draws? _____
What was thrown the most? _____
What was thrown the least? _____
Who had more wins? _____
Who had more losses? _____

Roll & Graph a Line Plot
Roll a pair of dice, count the dots, and add to the line plot graph. Repeat 30 times. Answer related questions.

Line Plot #1: Siblings
Number of Siblings in Home

0	1	2	3	4	5
4	5	3	2	1	1

Line Plot #2: Playground Time
Time in Minutes Spent at Playground

10	20	30	40	50	60	70	80
1	2	3	4	5	4	3	2

Pie Chart #1: Animals in the Barn

12 cows	3 rabbits	5 ducks
8 chickens	10 horses	

How many animals are in the barn in total?

PIE CHART SCOOT RECORDING SHEET
Name: _____
Use their skills to answer the SCOOT card.

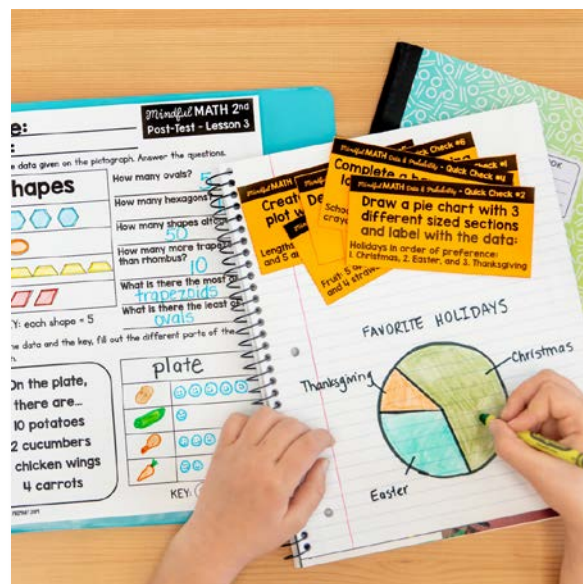
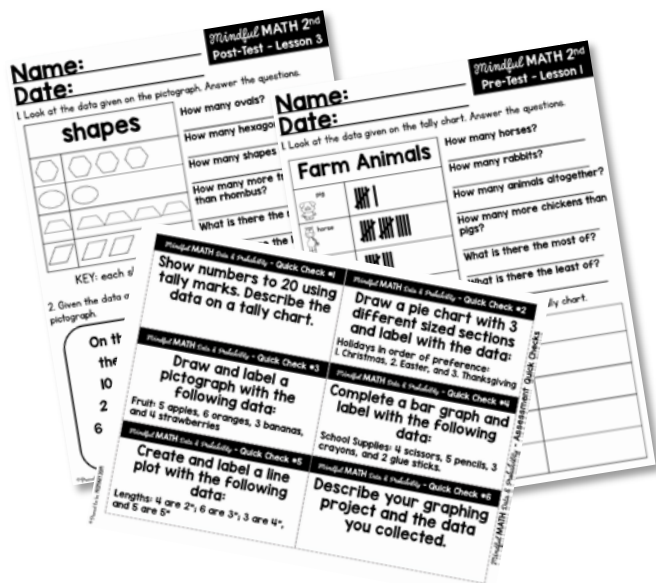
1	2	3
10	rabbits	5
5		
4		
9		
10		
12		

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Math Assessments

There are three assessments included for every lesson: A 2-page pre-test and post-test, as well as a Quick Check assessment task card. The post-test help provide you with data about what your student knows and if they have acquired the necessary skills they need to know. Use the Quick Checks as a short activity for individuals or small groups to complete and show their understanding.



Use Mindful MATH for...

- ♥ Your Guided Math routine
- ♥ Whole group mini-lessons
- ♥ Small group instruction
- ♥ Supplement your math program
- ♥ Math warm-ups
- ♥ Math centers
- ♥ Assessments
- ♥ Sub-plans
- ♥ Home review

Name: _____

Mindful MATH
Data & Probability

BAR GRAPH PICTURE COUNT RECORDING SHEETS: Count out the picture cards, add the data on bar graphs below, and analyze. Answer

A CRAYONS

8	8			
7				
6				
5		5		
4			4	
3				3
2				
1				

How many green? 8
How many pink? 5
How many crayons in total? 24
What color crayon is there the most of? green
What color crayon is there the least of? yellow
How many more blue crayons than yellow crayons? 3

B SCHOOL

8	8			
7				
6				
5				
4				
3				

How many scissors? 8

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Teachers Love Mindful MATH

Proud to Be Primary

MATH

David W.



It was great to get kids collecting data and displaying it on different types of graphs. I have used this a lot with my 2's and 2/3's. Strongly recommend!



Our math units are enjoyed in thousands of classrooms worldwide!

Mindful MATH

aligns to the
standards

- 2.MD.D.9
- 2.MD.D.10

This unit aligns to Second Grade Common Core standards and other state and Canadian standards.

Use it to teach the standards in the U.S. and Canada.

Mindful MATH 2nd Grade

Data & Probability - Overview

Correlated to the United States Common Core Standards

Lesson 1	TALLY CHARTS: Collect, organize, read and describe data	2.MD.D.10
Lesson 2	PIE CHARTS: Collect, organize, read and describe data	2.MD.D.10
Lesson 3	PICTOGRAPHS: Collect, organize, read and describe data	2.MD.D.10
Lesson 4	BAR GRAPHS: Collect, organize, read and describe data	2.MD.D.9
Lesson 5	LINE PLOTS: Collect, organize, read and describe measurement data	Not mentioned but provides additional practice in current topic.
Lesson 6	PROJECT: Collect, organize, read, & describe your own collected data	2.MD.D.10
Lesson 7	Probability in everyday situations	Not mentioned but provides practice in an important concept.
Lesson 8	Probability in simple games	Not mentioned but provides practice in an important concept.

Mindful MATH 2nd Grade

Data & Probability - Overview

Correlated to the NEW Ontario, Canada's Grade 2 Math Curriculum

Lesson 1	TALLY CHARTS: Collect, organize, read and describe data	DI.1 sort sets of data DI.2 collect data DI.3 display data DI.4 identify the mode DI.5 analyse data
Lesson 2	PIE CHARTS: Collect, organize, read and describe data	DI.1 sort sets of data DI.2 collect data DI.3 display data DI.4 identify the mode DI.5 analyse data
Lesson 3	PICTOGRAPHS: Collect, organize, read and describe data	DI.1 sort sets of data DI.2 collect data DI.3 display data DI.4 identify the mode DI.5 analyse data
Lesson 4	BAR GRAPHS: Collect, organize, read and describe data	DI.1 sort sets of data DI.2 collect data DI.3 display data DI.4 identify the mode DI.5 analyse data
Lesson 5	LINE PLOTS: Collect, organize, read and describe measurement data	DI.1 sort sets of data DI.2 collect data DI.3 display data DI.4 identify the mode DI.5 analyse data
Lesson 6	PROJECT: Collect, organize, read, & describe your own collected data	DI.1 sort sets of data DI.2 collect data DI.3 display data DI.4 identify the mode DI.5 analyse data
Lesson 7	Probability in everyday situations	D2.1 D2.2
Lesson 8	Probability in simple games	D2.1 D2.2

Mindful MATH 2nd Grade

Data & Probability - Overview

Correlated to British Columbia, Canada's BIG Ideas for Grade 2

Lesson 1	TALLY CHARTS: Collect, organize, read and describe data	Pictorial Representations: collect data, create graph, & represent data
Lesson 2	PIE CHARTS: Collect, organize, read and describe data	Pictorial Representations: collect data, create graph, & represent data
Lesson 3	PICTOGRAPHS: Collect, organize, read and describe data	Pictorial Representations: collect data, create graph, & represent data
Lesson 4	BAR GRAPHS: Collect, organize, read and describe data	Pictorial Representations: collect data, create graph, & represent data
Lesson 5	LINE PLOTS: Collect, organize, read and describe measurement data	Pictorial Representations: collect data, create graph, & represent data
Lesson 6	PROJECT: Collect, organize, read, & describe your own collected data	Pictorial Representations: collect data, create graph, & represent data
Lesson 7	Probability in everyday situations	Likelihood of Events: use comparative language to explain probability
Lesson 8	Probability in simple games	Likelihood of Events: use comparative language to explain probability

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With Elyse from Proud to Be Primary

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CLICK to join!



Learn How to Teach **MATH** Effectively in K-2

FREE lessons & activities
With Proud to Be Primary

Mindful **MATH** Curriculum for K-2



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I'd love for you to try a sample of Mindful Math with your students to see if it is a perfect fit for you and your students!

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Why

Proud to Be Primary

Mindful MATH

BACKGROUND

The Mindful Math curriculum incorporates focused math learning opportunities and many components within each unit. The activities are hands-on and mind-on, meaning students are actively working on math and engaging their minds. Mindful Math lessons encourage different ways of thinking and representing math concepts.

Mindful Math includes a variety of thoughtful lessons and activities to help meet the needs of learners and their learning styles. Students will have many opportunities to learn, practice, and review new strategies and develop math fluency through whole group warm-ups and lessons, mental math, journals, centers, games, and assessments.

Mindful Math was created to give teachers a comprehensive math curriculum that engages minds and leaves students knowledgeable and fluent in math concepts. The curriculum aligns to the U.S. Common Core standards, the Canadian math curriculums in B.C. and Ontario, as well as many other math curriculums around the world.