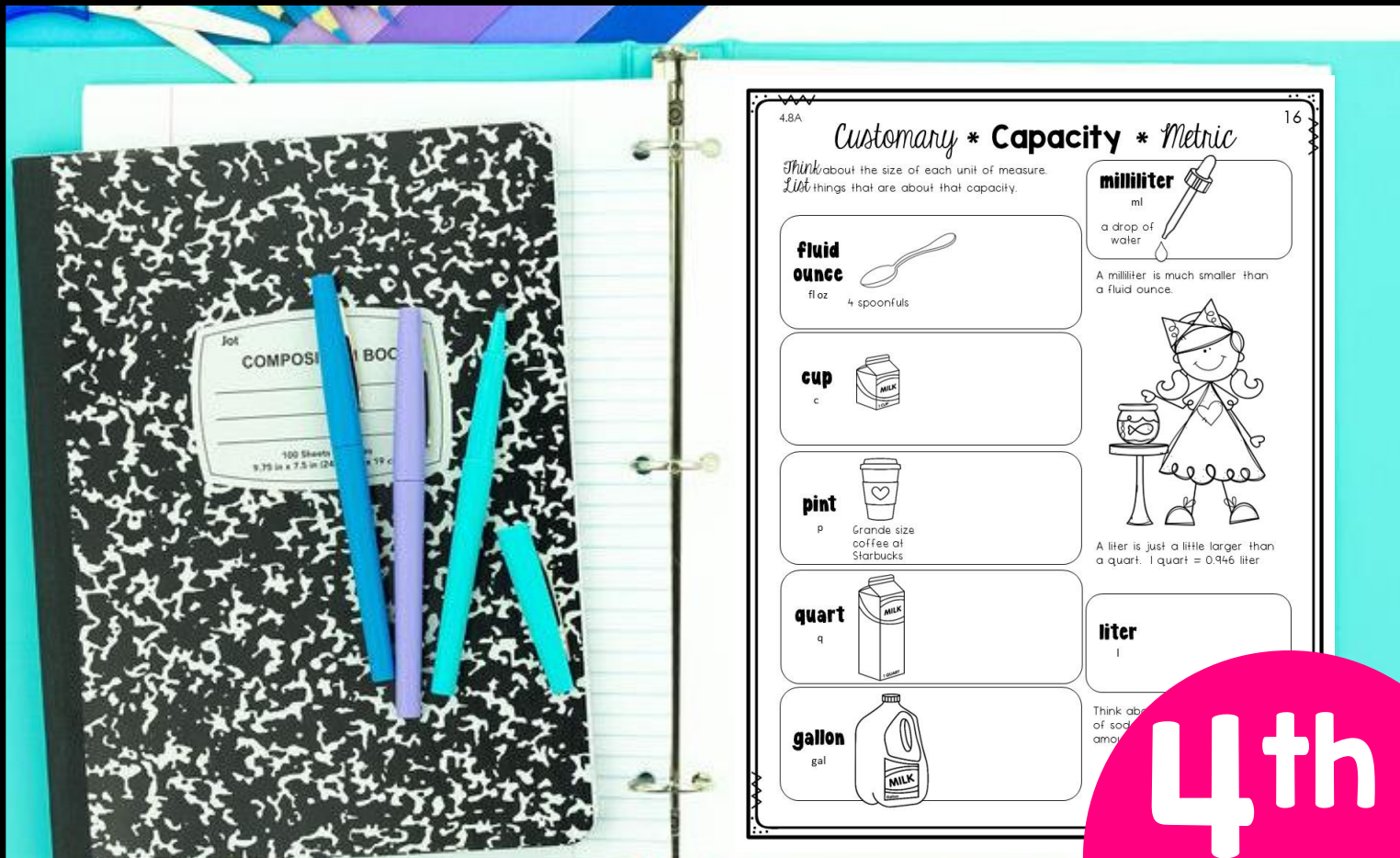


MEASUREMENT

Area, Perimeter, Time, Measurement Conversions



Notebook

MARVEL Math

4th
GRADE

Easy-to-Use Student Pages

4.8B

Measurement Conversions

10

The distance from Joseph's back door to his back fence is 14 yards. How many feet is that equivalent to?

Fill in the units from the problem. What am I starting with and what am I changing it into?

On the first line complete what you know from your STAAR chart. Match the units to the correct column. Complete the expression column.

Fill in the numbers from the problem.

Hannah has 24 feet of fabric to make curtains. How many yards is that equivalent to?

Jacob's snake is 3 feet long. How many inches long is his snake?

Kara's jump rope is 84 inches long. How many feet is her jump rope?

Emiliano ran 3 miles. How many yards is that equivalent to?

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4.8C

Elapsed Time: 2 WAYS

20

Jacob started mowing the lawn at 2:53 pm. It took him 42 minutes to mow the lawn. What time did he finish?

Add & Regroup

2:53
Start time
42 min
Elapsed time

2:53
+ :42

Regroup: Take out 60 minutes and add 1 hour

Open Time Line

1. How many minutes do you need to jump to get to the next hour?

3. How many more minutes or hours do you need to jump?

2. Label the next hour

4. What time do you end at?

Kaylee is driving to dance practice. She left her house at 3:47. It takes 25 minutes to drive to dance. What time will she arrive?

Add & Regroup

3:47
Start time
25 min
Elapsed time

3:47
+ :25

Regroup: Take out 60 minutes and add 1 hour

Open Time Line

1. How many minutes do you need to jump to get to the next hour?

3. How many more minutes or hours do you need to jump?

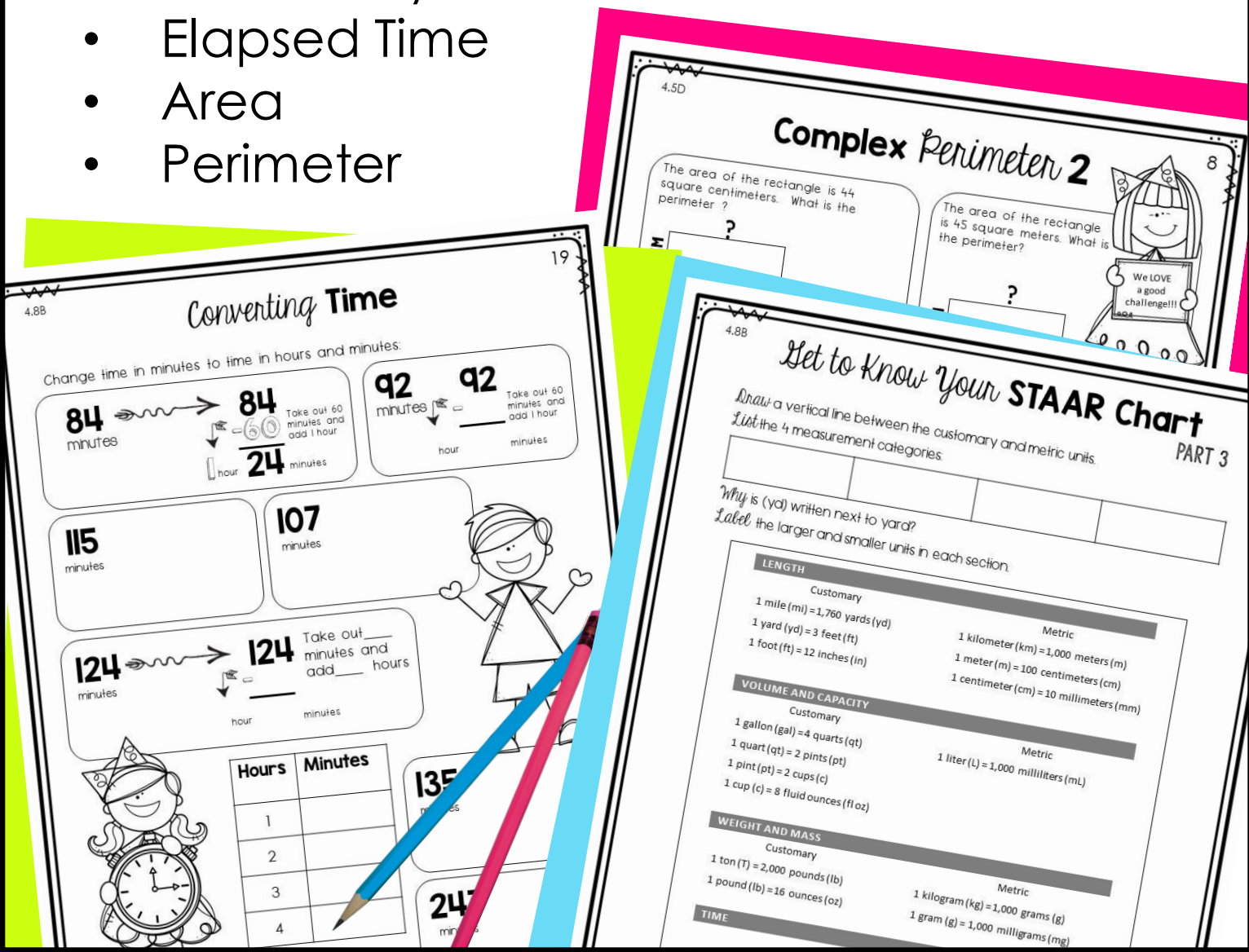
2. Label the next hour

4. What time do you end at?

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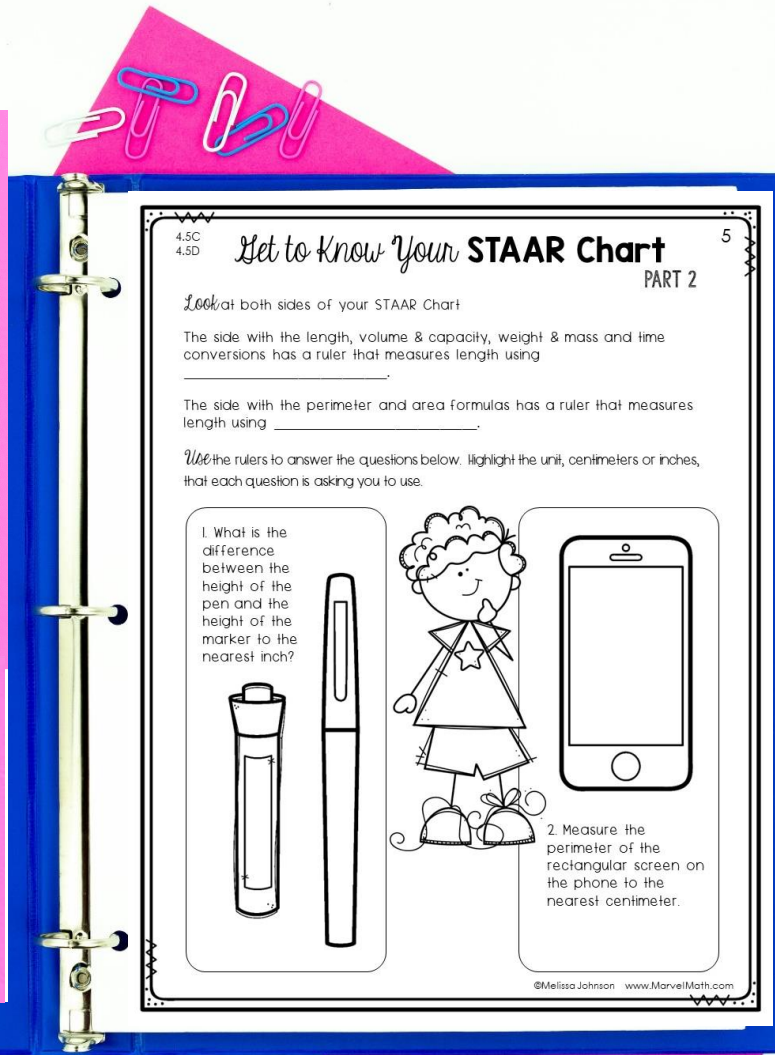
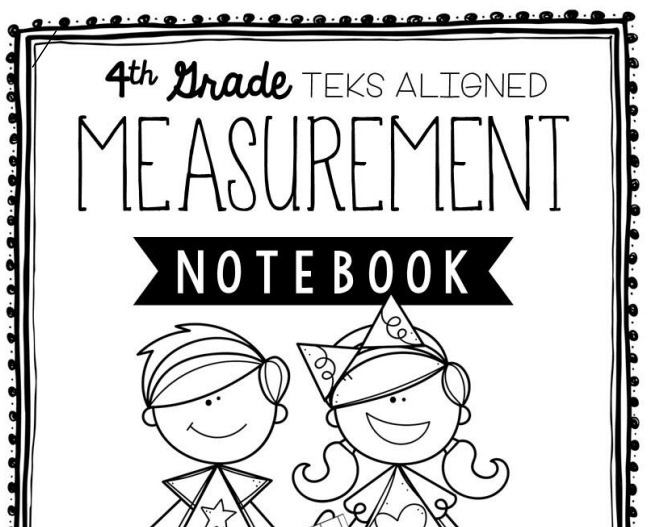
Teaches Every Measurement Topic

- Converting Measurements
- Relative Sizes of Units
- Customary and Metric Units
- Elapsed Time
- Area
- Perimeter



No Cutting or Gluing Required

- Make stapled packets
- 3-hole punch to use in a binder
- Make the most of class time



Essential Vocabulary

Easy-to-Use Student Reference Tool

MARVELMath

ESSENTIAL MEASUREMENT VOCABULARY

Term	Picture or Example	Definition
Perimeter	15 ft. 7 ft. 	Distance <u>around</u> a figure
Formula for perimeter	$P = 2L + 2w$ $P = (2 \times 15) + (2 \times 7)$ $P = 30 + 14$ $\text{Perimeter} = 44 \text{ feet}$	
Area	15 ft. 7 ft. 	Space <u>inside</u> a figure
Formula for Area	$A = l \times w$ $A = 15 \times 7$ $\text{Area} = 105 \text{ square feet}$	

ESSENTIAL MEASUREMENT VOCABULARY

Term	Picture or Example	
Perimeter		
Formula for perimeter		
Area		
Formula for Area		



Built for the TEKS

Measurement Table of Contents

TOPIC	TEKS	page(s)
Measurement Vocabulary	All	1-2
Perimeter and Area	4.5C, 4.5D	3
Get to Know Your STAAR Chart Parts 1-2	4.5C, 4.5D	4-5
Fractions of Inches	Needed for 4.5D	6
Complex Perimeter	4.5D	7
Complex Perimeter 2	4.5D	8
Get to Know Your STAAR Chart Part 3	4.8B	9
Measurement Conversions	4.8B	10
Problem Solving with Conversions	4.8C	11-12
Customary Length	4.8A	13
Miles & Kilometers	4.8A	14
Metric Length	4.8A	15
Customary & Metric Capacity	4.8A	16
Customary Weight	4.8A	17
Metric Mass	4.8A	18
	4.8B	19
		20

Resource Includes

-  **22 Student Pages**
-  **Pages to introduce all the Measurement TEKS**
-  **Detailed Teacher KEY**
-  **Essential Vocabulary Section**



About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.

