

NOT SO WIMPY

UNIT 7:

FRACTIONS

AND DECIMALS

4th GRADE

MATH CURRICULUM

15 DAYS OF COMPARING
FRACTIONS MATH LESSON PLANS,
POWERPOINTS, ACTIVITIES,
AND ASSESSMENT



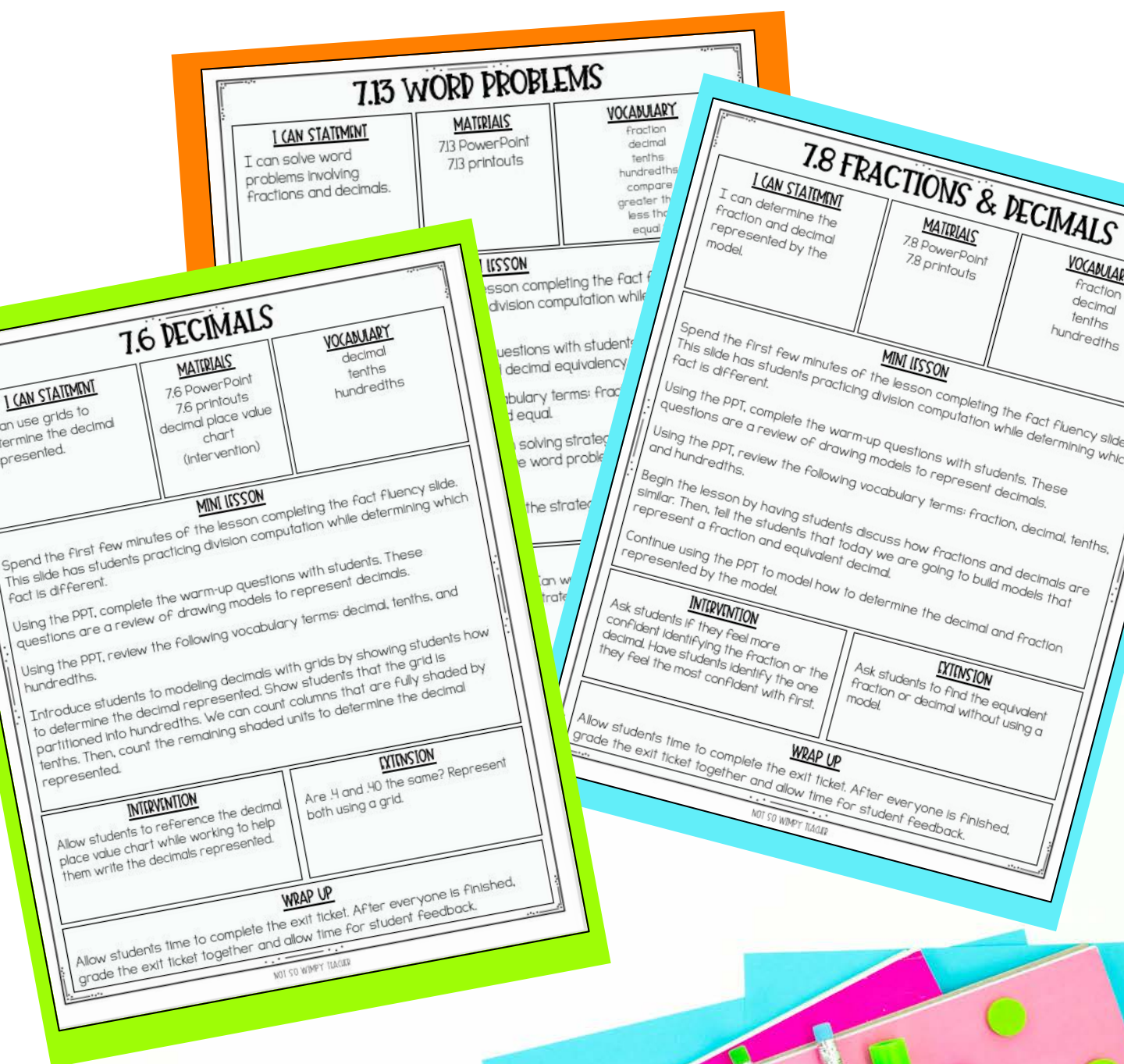


UNIT 7: FRACTIONS & DECIMALS at a glance

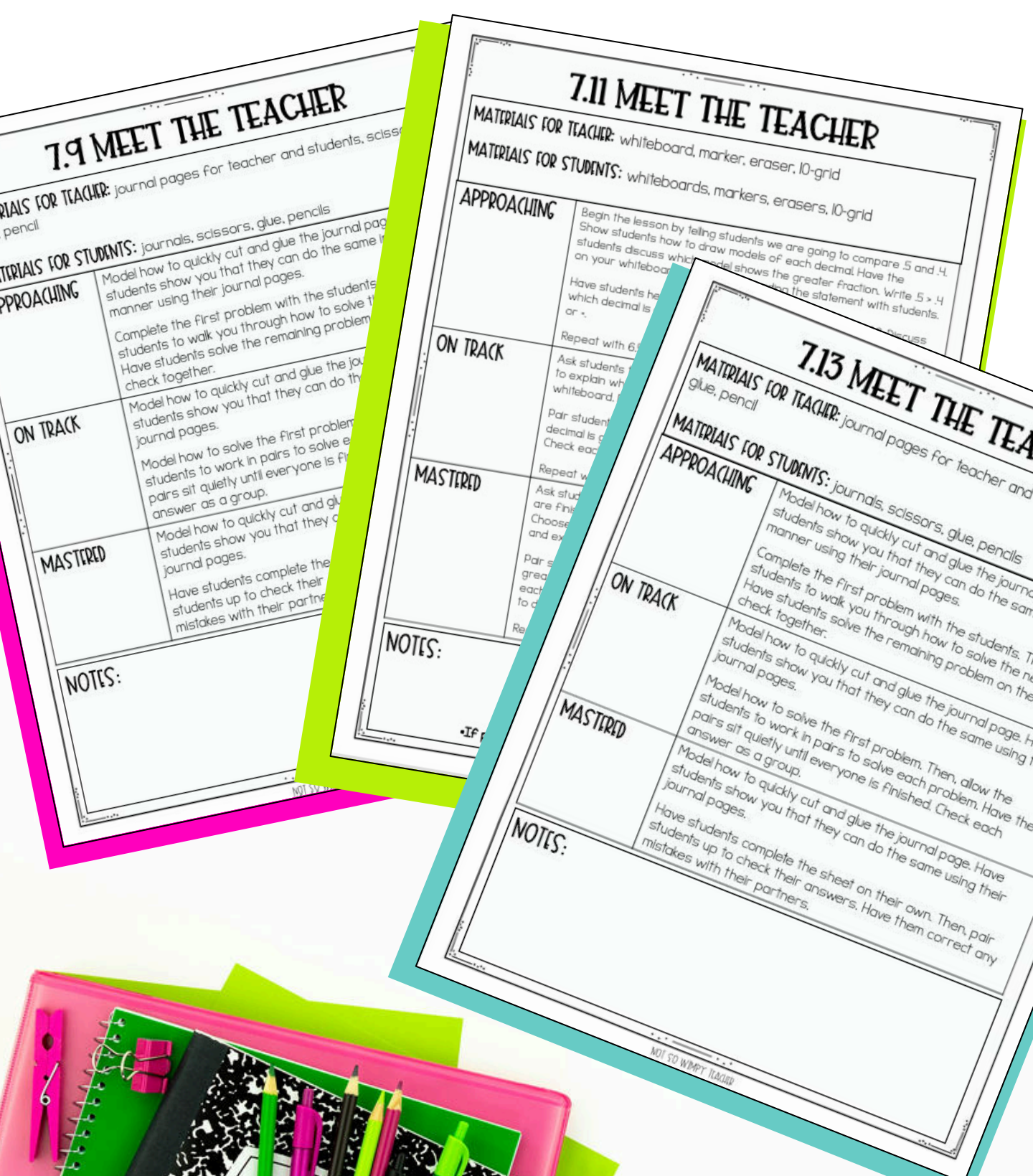
Day 1 Equivalent Fractions with Denominators 10 & 100	Day 2 Equivalent Fractions with Denominators 10 & 100	Day 3 What Is a Decimal?	Day 4 Tenths and Decimals Using Models	Day 5 Tenths and Decimals Using Number Lines
Day 6 Hundredths and Decimals Using Grids	Day 7 Hundredths and Decimals Using Number Lines	Day 8 Fractions and Decimals	Day 9 Fractions and Decimals	Day 10 Review
Day 11 Comparing Decimals	Day 12 Comparing Decimals	Day 13 Word Problems	Day 14 PBL	Day 15 Assessment

UNIT COVERS THE FOLLOWING COMMON CORE MATH STANDARDS: 4.NF.5, 4.NF.6, 4.NF.7

INCLUDES A PACING GUIDE TO SEE
YOUR ENTIRE WEEK AT A GLANCE



INCLUDES WHOLE GROUP
LESSON PLANS!



7.9 MEET THE TEACHER

MATERIALS FOR TEACHER: journal pages for teacher and students, scissors, pencil

MATERIALS FOR STUDENTS: journals, scissors, glue, pencils

APPROACHING
Model how to quickly cut and glue the journal page. Have students show you that they can do the same in a similar manner using their journal pages.
Complete the first problem with the students. Walk you through how to solve the problem. Have students solve the remaining problem on their own. Check together.

ON TRACK
Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.
Model how to solve the first problem. Have students work in pairs to solve each problem. Pairs sit quietly until everyone is finished. Check each other's answers as a group.

MASTERED
Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.
Have students complete the sheet on their own. Then, pair students up to check their answers. Have them correct any mistakes with their partners.

NOTES:

7.11 MEET THE TEACHER

MATERIALS FOR TEACHER: whiteboard, marker, eraser, 10-grid
MATERIALS FOR STUDENTS: whiteboards, markers, erasers, 10-grid

APPROACHING
Begin the lesson by telling students we are going to compare 5 and 4. Show students how to draw models of each decimal. Have the students discuss which model shows the greater fraction. Write $5 > 4$ on your whiteboard.
Have students help you draw a model showing the statement with students.
Repeat with 6.

ON TRACK
Ask students to explain why $5 > 4$ on the whiteboard.
Pair students to draw a model. Check each other's work.
Repeat with 6.

MASTERED
Ask students to explain why $5 > 4$ on the whiteboard. Choose one student to draw a model and explain to the class.
Pair students to draw a model. Check each other's work. Repeat with 6.

NOTES:

7.13 MEET THE TEACHER

MATERIALS FOR TEACHER: journal pages for teacher and students, glue, pencil

MATERIALS FOR STUDENTS: journals, scissors, glue, pencils

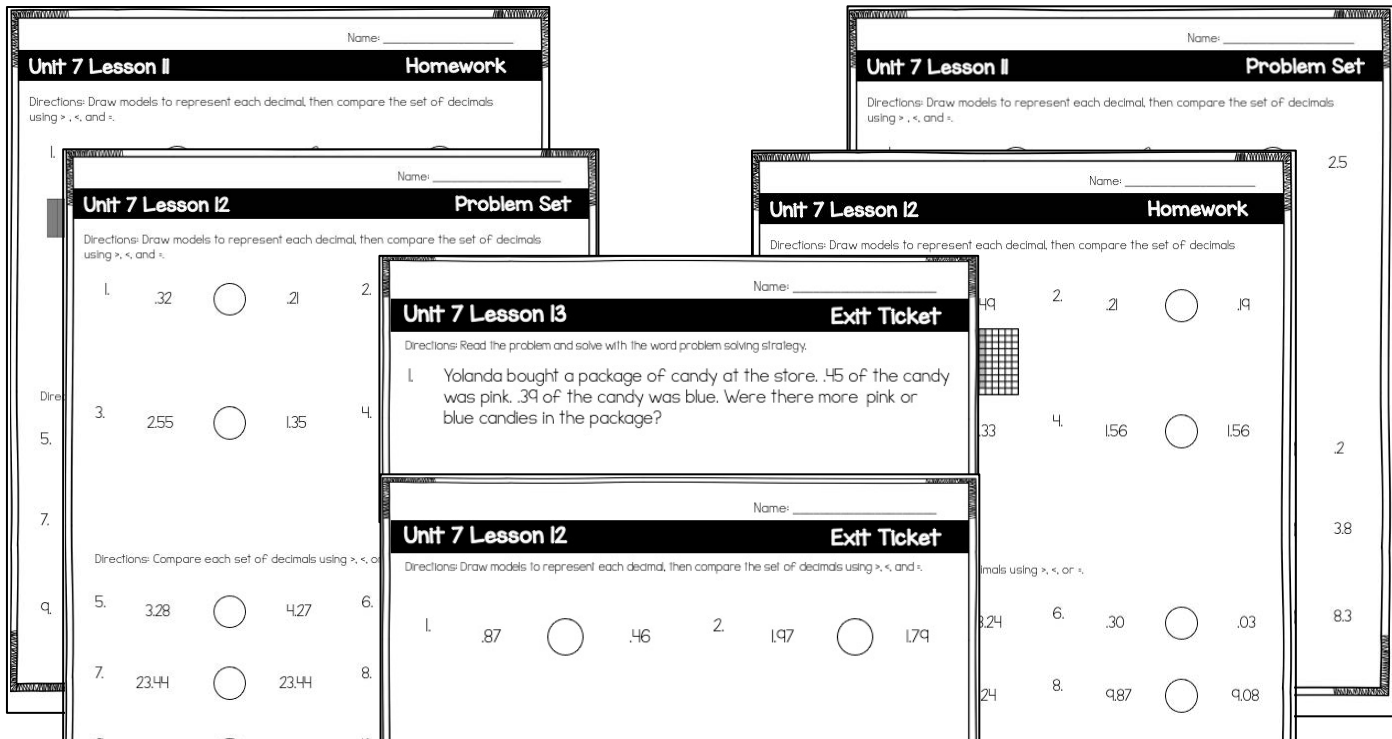
APPROACHING
Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.
Complete the first problem with the students. Walk you through how to solve the problem. Have students solve the remaining problem on their own. Check together.

ON TRACK
Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.
Model how to solve the first problem. Then, allow the students to work in pairs to solve each problem. Have the pairs sit quietly until everyone is finished. Check each other's answers as a group.

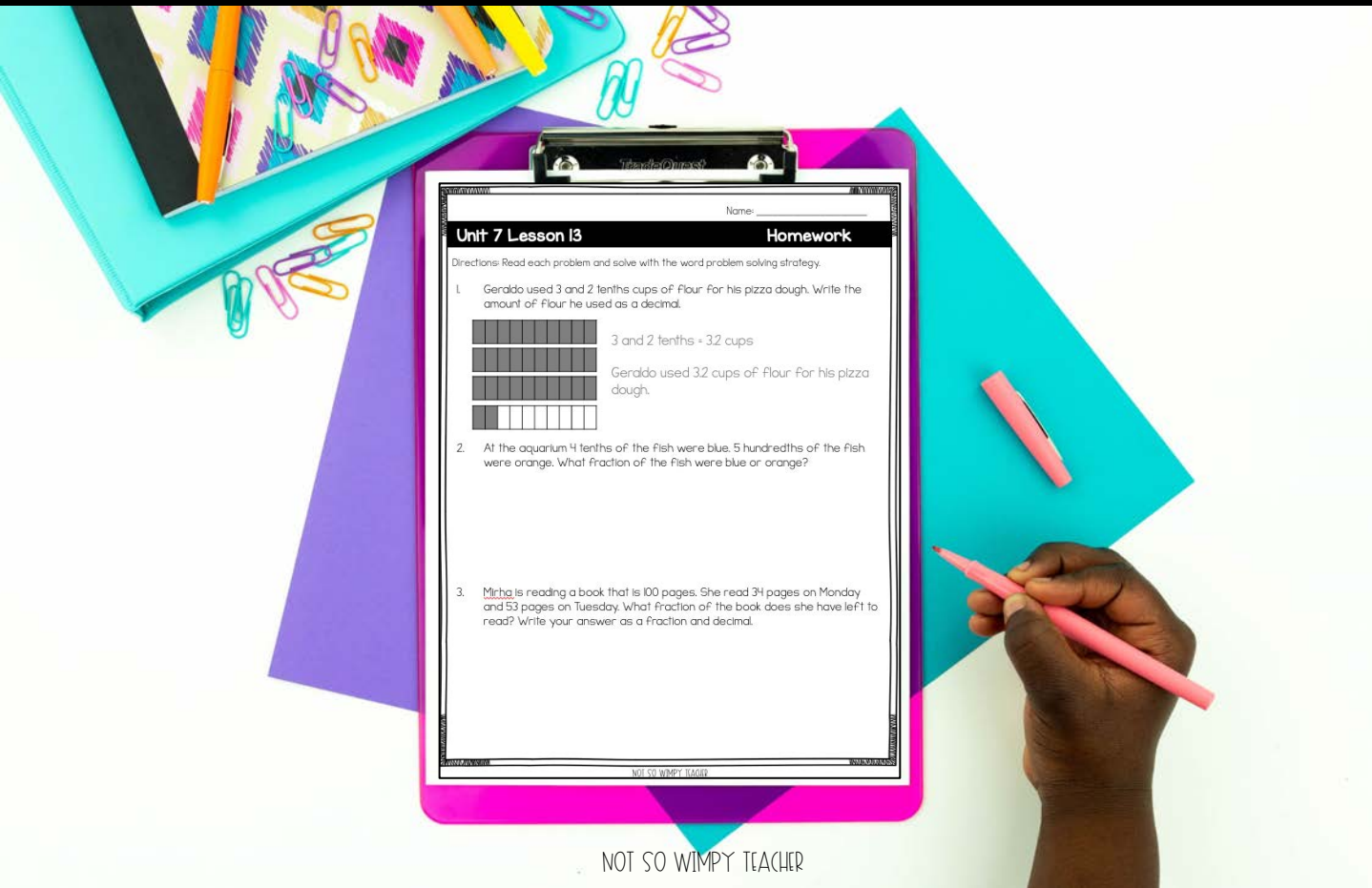
MASTERED
Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.
Have students complete the sheet on their own. Then, pair students up to check their answers. Have them correct any mistakes with their partners.

NOTES:

INCLUDES SMALL GROUP/ MEET WITH TEACHER LESSON PLANS



INCLUDES PROBLEM SETS, HOMEWORK,
AND EXIT TICKETS FOR EACH DAY



7.6 Decimals

I can use grids to determine the decimal.

Fact Fluency

ALIKE OR DIFFERENT

Three of these expressions have something in common. Which one is different?

$$15 \div 5$$

Warm Up

Draw a model that represents the decimal.

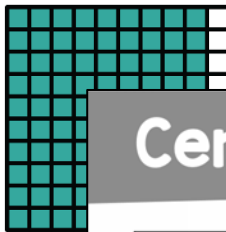
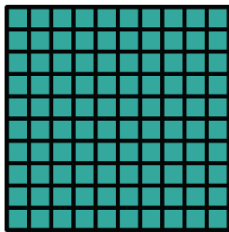
5.3

Decimals

DECIMAL PLACE VALUE

Decimals

What decimal is represented?



hundreds	tens	ones	tenths	hundredths
0	9	0	0	0

Centers

	MON.	TUES.	WED.	THURS.
GROUP 1	Meet the Teacher	Independent	Meet the Teacher	Independent
		Math Facts	Technology	Math Facts
		Meet the Teacher	Independent	Meet the Teacher
		Technology	Math Facts	Technology
		Math Facts	Technology	Math Facts
		Independent	Meet the Teacher	Independent
		Technology	Math Facts	Technology

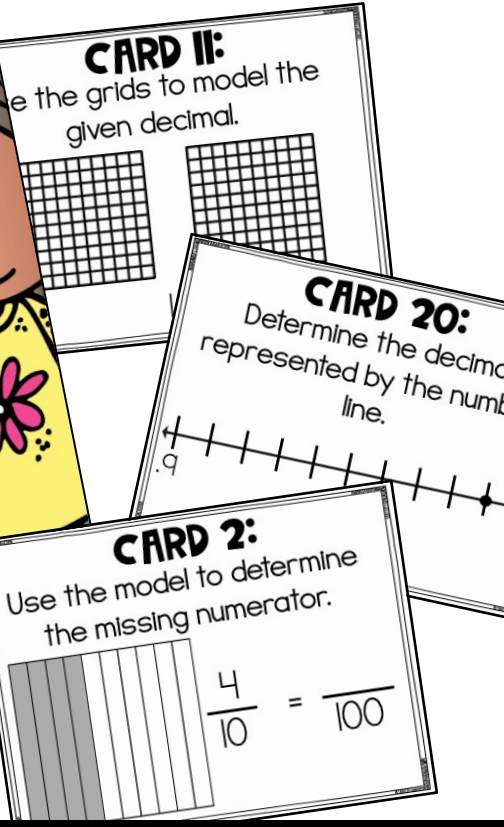
Exit Ticket

Directions: Use the grids to determine the decimals represented.

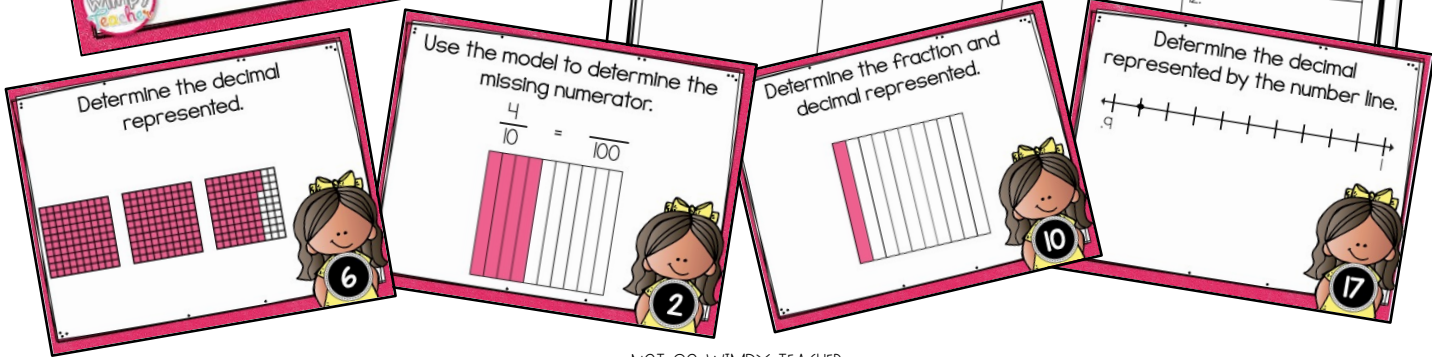
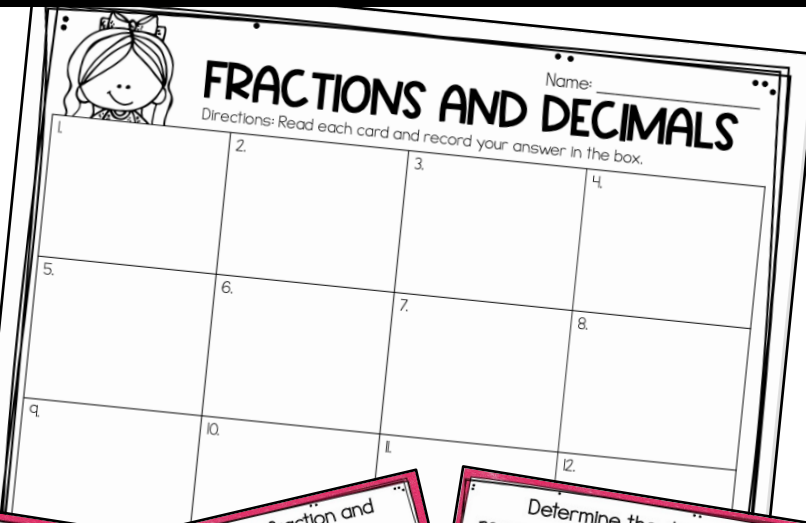
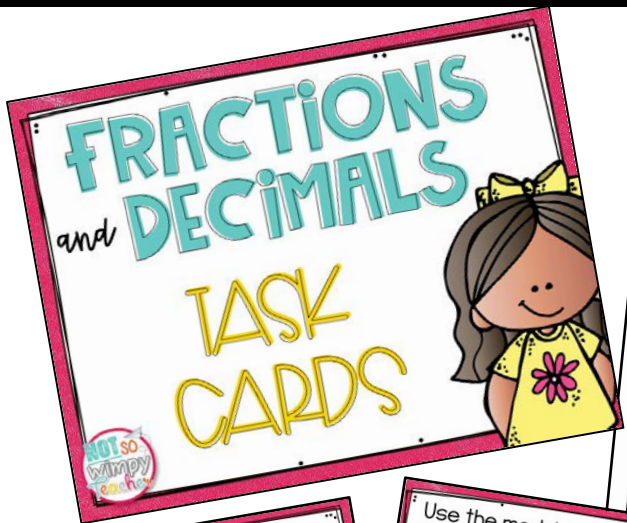
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INCLUDES DAILY POWERPOINTS FOR TEACHING MATH SKILLS.

REVIEW board game



games and task cards are INCLUDED FOR END OF UNIT REVIEW



PBL ACTIVITY

FRACTIONS AND DECIMALS

A PARTY-PLANNING
THEMED PROJECT-BASED
LEARNING ACTIVITY



SHOPPING for SUPPLIES

As you were setting up for the party, you realized you were missing a few items. Use the information given to determine the missing information and fill in the missing information on the table.

SHOPPING LIST

- candy
- candles
- piñata
- balloons
- party hat

PRICE	FRACTION	ADDING WITH UNLIKE DENOMINATORS
cupcake liner \$0.62	—	$\frac{10}{10} + \frac{10}{10} = \frac{20}{10}$
candy	—	$\frac{10}{10} + \frac{4}{100} = \frac{104}{100}$
candles \$0.87	$\frac{34}{100}$	$\frac{10}{10} + \frac{8}{100} = \frac{108}{100}$
piñata	—	$\frac{10}{10} + \frac{8}{100} = \frac{108}{100}$
balloons	$\frac{98}{100}$	$\frac{5}{10} + \frac{6}{100} = \frac{56}{100}$
party hat	—	$\frac{5}{10} + \frac{6}{100} = \frac{56}{100}$

PARTY RENTALS

Your friend wants there to be lots of entertainment at the party. You are going to rent some items that will entertain the party guests. Each service has a rental time, but you can rent each item more than once. Use the information to create a plan for the entertainment. Be sure your plan has a total of 8 hours of service time.

Service	Time
Total Time	8 hours

- balloon wall
 $1\frac{2}{5}$ hours
- popcorn machine
 $2\frac{3}{5}$ hours
- photo booth
 $3\frac{2}{5}$ hours
- kiddie pool
 $2\frac{1}{5}$ hours
- waterslide
 $1\frac{4}{5}$ hours
- cotton candy
 $\frac{3}{5}$ hours
- water targets
 $3\frac{1}{5}$ hours
- snow cones
 $4\frac{2}{5}$ hours
- face painting
 $\frac{2}{5}$ hours

GOODIE BAGS

The agenda is assembling the goodie bags! Your friend is in charge of assembling the goodie bags. Use the guidelines to determine the amount of each item in the bag.

- Guidelines
- The goodie bag will have ten items.
 - The goodie bag will have 3 pieces of candy.
 - The fraction of blocks in the bag is greater than the fraction of spinners.

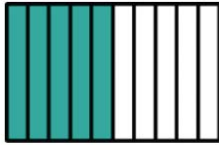
Item	Fraction
Candy	
Blocks	

INCLUDES A SPECIAL PARTY PLANNING PROJECT-BASED LEARNING ACTIVITY

COMPARING DECIMALS

Use $>$, $<$, or $=$ symbols to compare decimal numbers.

.5



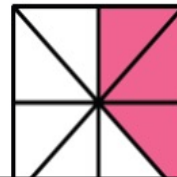
DECIMAL PLACE VALUE

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones		tenths	hundredths
1,	3	4	9,	3	4	2	.	8	7

VOCABULARY CARDS AND ANCHOR CHARTS FOR TEACHER AND STUDENTS TO REFERENCE THROUGHOUT THE UNIT

FRACTION

part of a whole



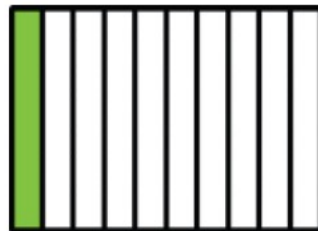
EQUAL TO

the same as the other



TENTH

one out of ten equal parts of a whole



Unit 7 Lesson 12

Directions: Draw models to represent each decimal, then using $>$, $<$, and $=$.

1. 0.32 ○ 0.21

3. 2.55 ○ 1.35

Directions: Compare each set of decimals using $>$, $<$, and $=$.

5. 3.28 ○ 4.27

7.8 FRACTIONS & DECIMALS

I CAN STATEMENT

I can determine the fraction and decimal represented by the model.

MATERIALS

7.8 PowerPoint
7.8 printouts

VOCABULARY

Fraction
decimal
tenths
hundredths

MINI LESSON

Spend the first few minutes of the lesson completing the fact fluency slide. This slide has students practicing division computation while determining which fact is different.

Using the PPT, complete the warm-up questions with students. These questions are a review of drawing models to represent decimals.

Using the PPT, review the following vocabulary terms: fraction, decimal, tenths, and hundredths.

Begin the lesson by having students discuss how fractions and decimals are similar. Then, tell the students that today we are going to build models that represent a fraction and equivalent decimal.

Continue using the PPT to model how to determine the decimal and fraction represented by the model.

INTERVENTION

Ask students if they feel more confident identifying the fraction or the decimal. Have students identify the one they feel the most confident with first.

EXTENSION

Ask students to find the equivalent fraction or decimal without using a model.

WRAP UP

Complete the exit ticket. After everyone is finished, gather and allow time for student feedback.

Name: _____

Homework

the word problem solving strategy.
of flour for his pizza dough. Write the
al.

ths = 3.2 cups
d 3.2 cups of flour for his pizza

re blue. 5 hundredths of the fish
were blue or orange?

re read 34 pages on Monday
the book does she have left to
decimal.

COMPARING DECIMALS

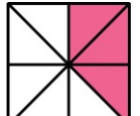
Use $>$, $<$, or $=$ symbols to compare decimals

DECIMAL PLACE VALUE

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths
1	3	4	9	3	4	2	.	8 7

FRACTION

part of a whole



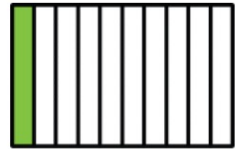
EQUAL TO

the same as the other

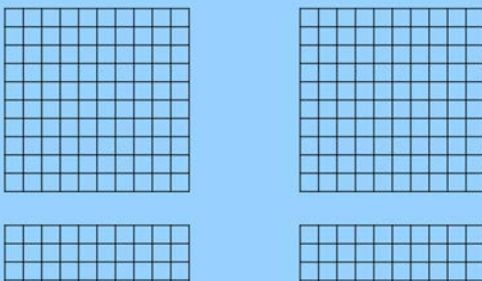


TENTH

one out of ten equal parts of a whole



Hundredths Template



Decimal Place Value Chart

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths

each day of math is fully planned for you with all the tools you'll need!



Area Model Template



Multiplication Table							
2	4	5	6	7	8	9	10

UNIT FOR VOCABULARY CARDS

DIV

ESTIMATE
when we calculate

DIVIDEND

the total in a division

$$42 \div 6$$

DIVISION

making a number into equal parts

$$6 \div 3 = 2$$

DIVISOR

what the dividend is being divided

$$42 \div 6$$

STANDARD ALGORITHM
the common step-by-step

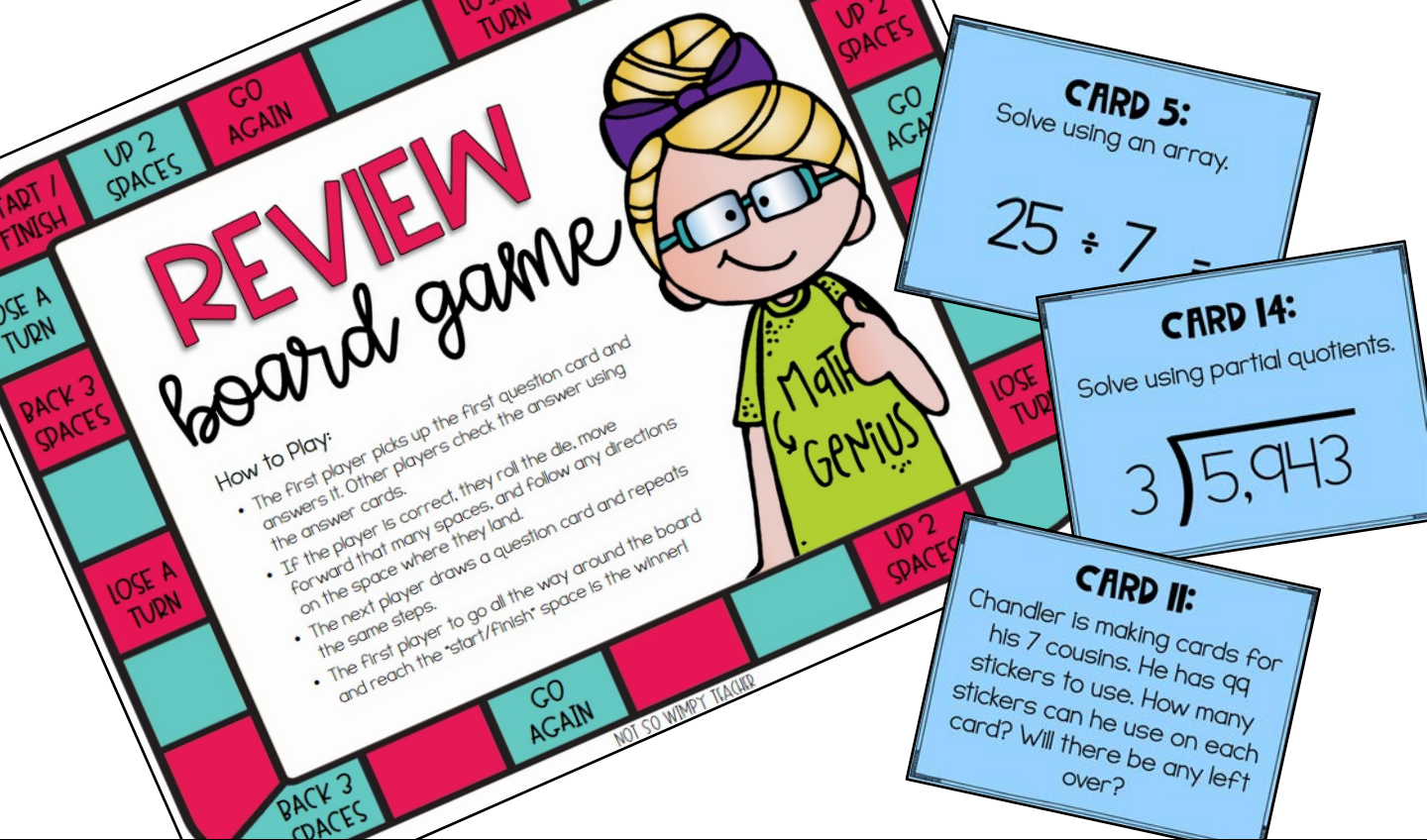
PARTIAL QUOTIENTS

parts of an answer to a division problem

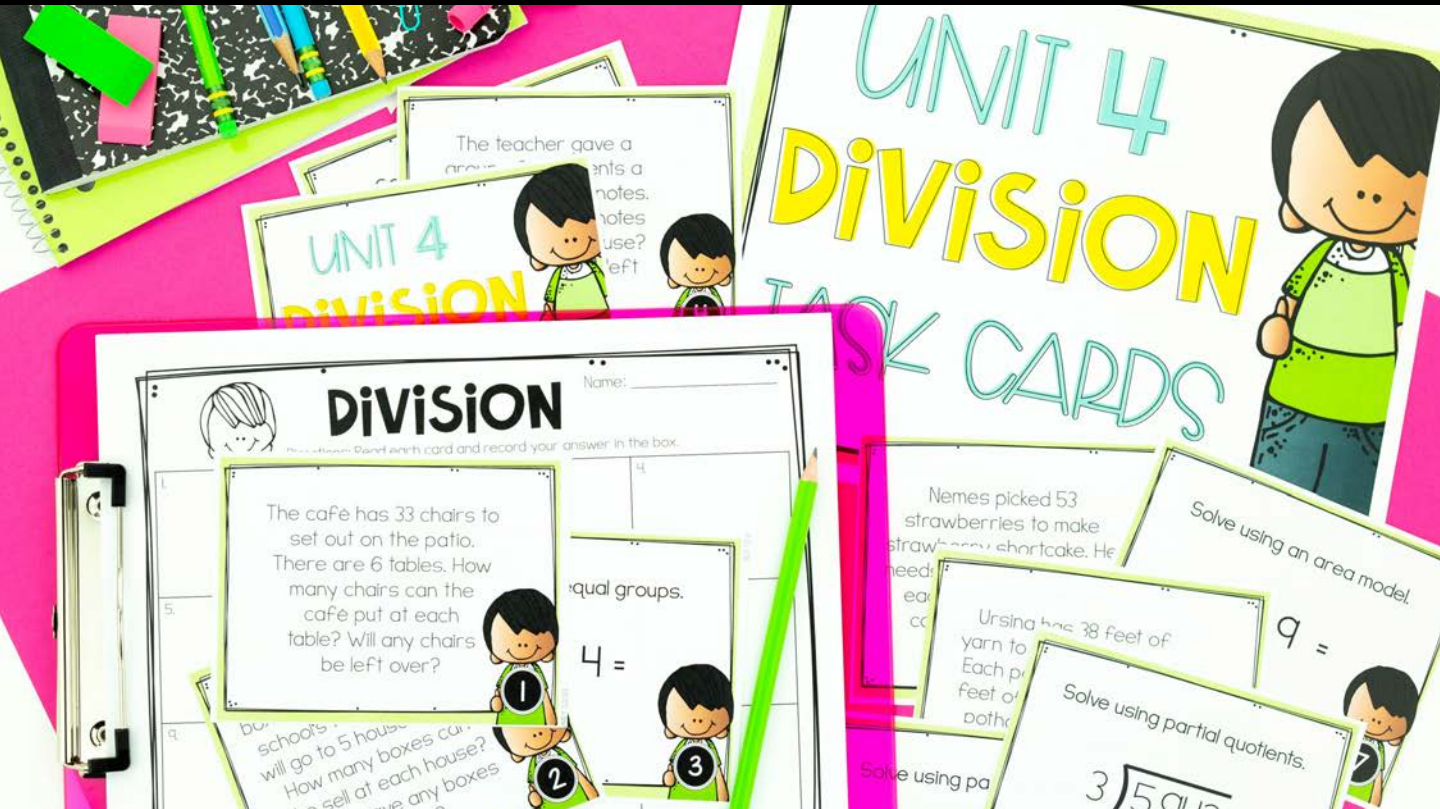
REMAINDER

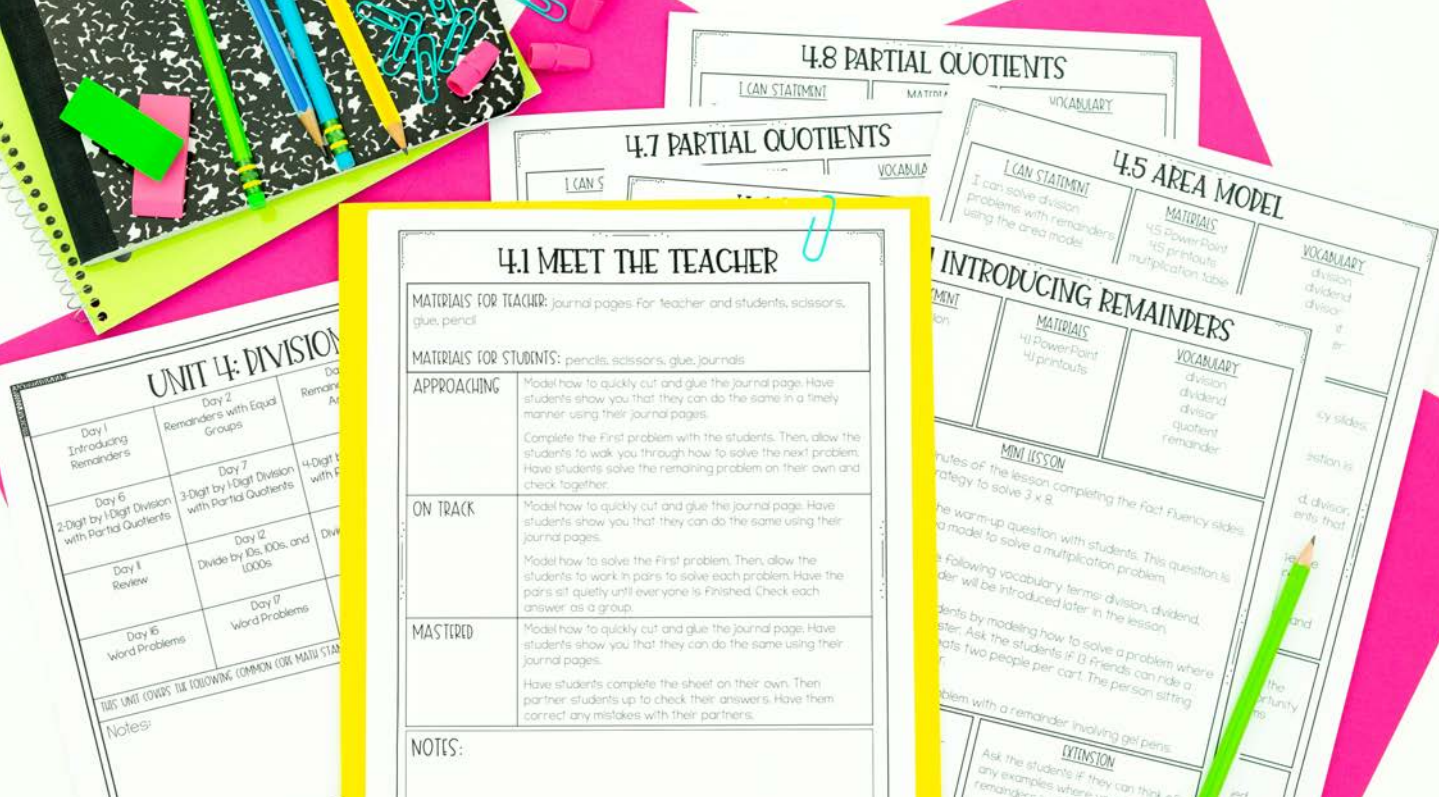
the part left over after division

Vocabulary cards and anchor charts for teacher and students to reference throughout the unit



games and task cards are INCLUDED FOR END OF UNIT REVIEW





each day of math is fully planned for you with all the tools you'll need!



STANDARD ALGORITHM

PART

STEP 1:

1 2 7

EA M

13

6

Name: _____
Unit 4 Lesson **homework**

Name: _____
Unit 4 Lesson 1 **Problem Set**

Directions: Re

1. A bake cakes.

2. Mr. Je chairs any c

3. Betty hats

4. Creec ever gum

Name: _____
Unit 4 Lesson 5 **Level Up**

Directions: Read each problem and solve.

1. Frida and Flynn picked blueet and Flynn picked 32 blueber many pies can they make?

2. Mallie's le \$45. If si Sunday?

3. Mrs. Pickins students. Sh

Name: _____
Unit 4 Lesson 8

Directions: Use the partial quotients.

Unit 4 Lesson 1

Directions: Read and solve the problem.

1. Dingo's dog food bag has day. How many days will food left over?

Ur

Dir

1.

2. $19 + 4 = \underline{\hspace{2cm}}$

Name: _____
Unit 4 Lesson 5

Directions: Solve each problem using the

1. $74 + 8 = \underline{\hspace{2cm}}$

2. $154 + 6 = \underline{\hspace{2cm}}$

he scissor
te an equa

DIV
oducing

INCLUDES PROBLEM SETS, HOMEWORK,
AND EXIT TICKETS FOR EACH DAY