Multiplying and Dividing Fractions

30 full days of math lesson plans, PowerPoints, & activities

Name: _____

Homework

Unit 6 Lesson 4

Directions: Use models to

1. $\frac{2}{3} \times \frac{4}{5}$

2. $\frac{2}{6} \times$

3. $\frac{5}{7} \times$

Name: _____

Unit 6 Lesson 10 Problem Set

Directions: Find the area of each rectangle.

1. 4 units, $2\frac{2}{3}$ units

2. 3 units, $4\frac{1}{2}$ units

3. 8 units, $5\frac{7}{8}$ units

4. $3\frac{3}{4}$ units, 6 units

QUOTIENT
the answer to a division

$42 \div 6 = 7$

EQUIVALENT
equal to

$\frac{}{} = \frac{}{}$

IMPROPER FRACTION
numerator is greater than the denominator

$\frac{6}{5}$

Warm Up

Find the area of the rectangle with the given measurements.

$\frac{5}{6}$ units by $\frac{8}{9}$

Fact Fluency

QUICK THINK!

Whisper-shout each product.

Dividing by Unit Fractions

Draw a model to find the quotient.

$3 \div \frac{1}{8} = 24$

8 8 8

FINDING AREA

$\frac{3}{4}$ unit

3 units

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

=

DIVIDE BY UNIT FRACTIONS

$6 \div \frac{1}{5} = 30$

5 10 15

20 25 30

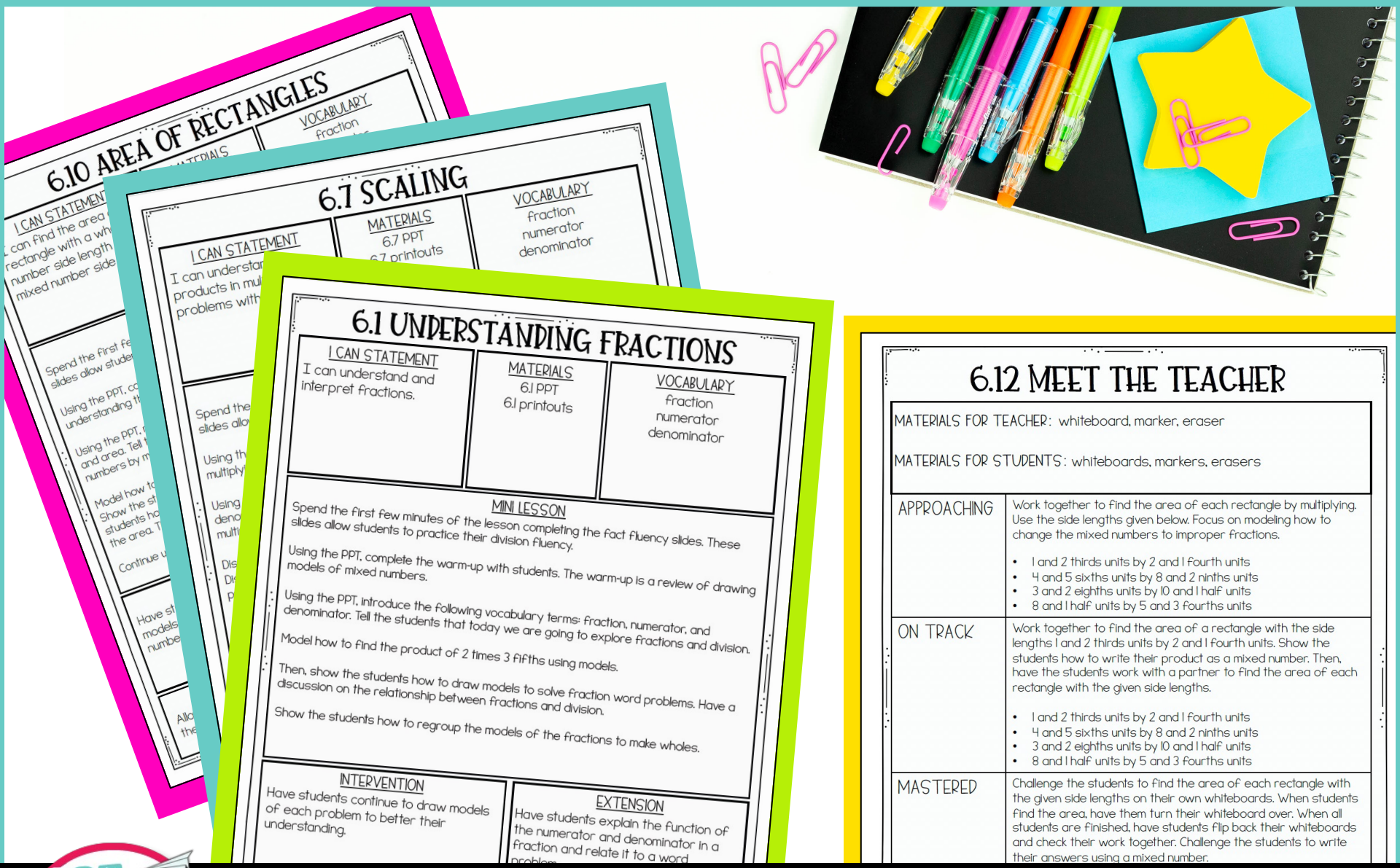


UNIT 6: MULTIPLY & DIVIDE FRACTIONS at a glance

Day 1 Understanding Fractions	Day 2 Multiplying Fractions by Whole Numbers with Models	Day 3 Multiplying Fractions by Whole Numbers	Day 4 Multiplying Fractions by Fractions with Models	Day 5 Multiplying Fractions by Fractions
Day 6 Understanding Products	Day 7 Scaling	Day 8 Multiplying Mixed Numbers by Fractions	Day 9 Finding the Area of Rectangles Whole Numbers by Fractions	Day 10 Finding the Area of Rectangles Whole Numbers by Mixed Numbers
Day 11 Finding the Area of Rectangles Fractions by Fractions	Day 12 Finding the Area of Rectangles Mixed Numbers by Mixed Numbers	Day 13 Multiplication Word Problems	Day 14 Multiplication Review	Day 15 Interpret Remainders
Day 16 Divide Whole Numbers by Unit Fractions	Day 17 Divide Whole Numbers by Unit Fractions Word Problems	Day 18 Divide Whole Numbers by Unit Fractions Word Problems	Day 19 Divide Unit Fractions by Whole Numbers	Day 20 Divide Unit Fractions by Whole Numbers
Day 21 Divide Unit Fractions by Whole Numbers	Day 22 Divide Unit Fractions by Whole Numbers	Day 23 Division Word Problems	Day 24 Division Word Problems	Day 25 Division Review

Not So Wimpy Teacher

Includes a pacing guide so you can see the whole unit at a glance.



Not So Wimpy Teacher

Engaging whole & small group lessons are done for you, making prep & planning a breeze.

Word Problems

WORD PROBLEM SOLVING STRATEGY

STEP 1:
READ
Put down your p
read the pro

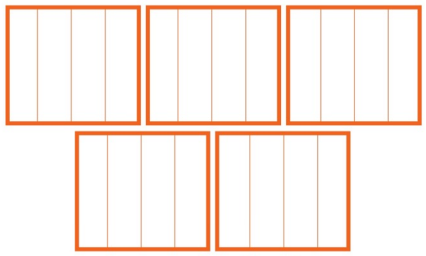
STEP 2:
DRAW

Word Problems

STEP 3:
SOLV
Write an equat
solve.

STEP 2:
DRAW
Reread the problem, and draw a math model.

A basket of nuts is 5 pounds. Alisha is separating the nuts into 1 fo
many



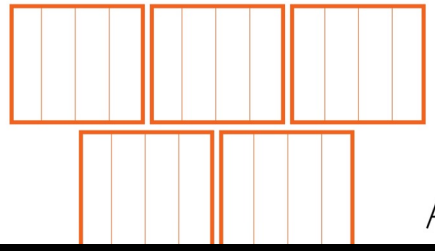
5 pounds of nuts
partitioned into 1 fourth pound bags

NOT SO WIMPY TEACHER

Word Problems

STEP 4:
WRITE
Write your answer in a complete sentence.

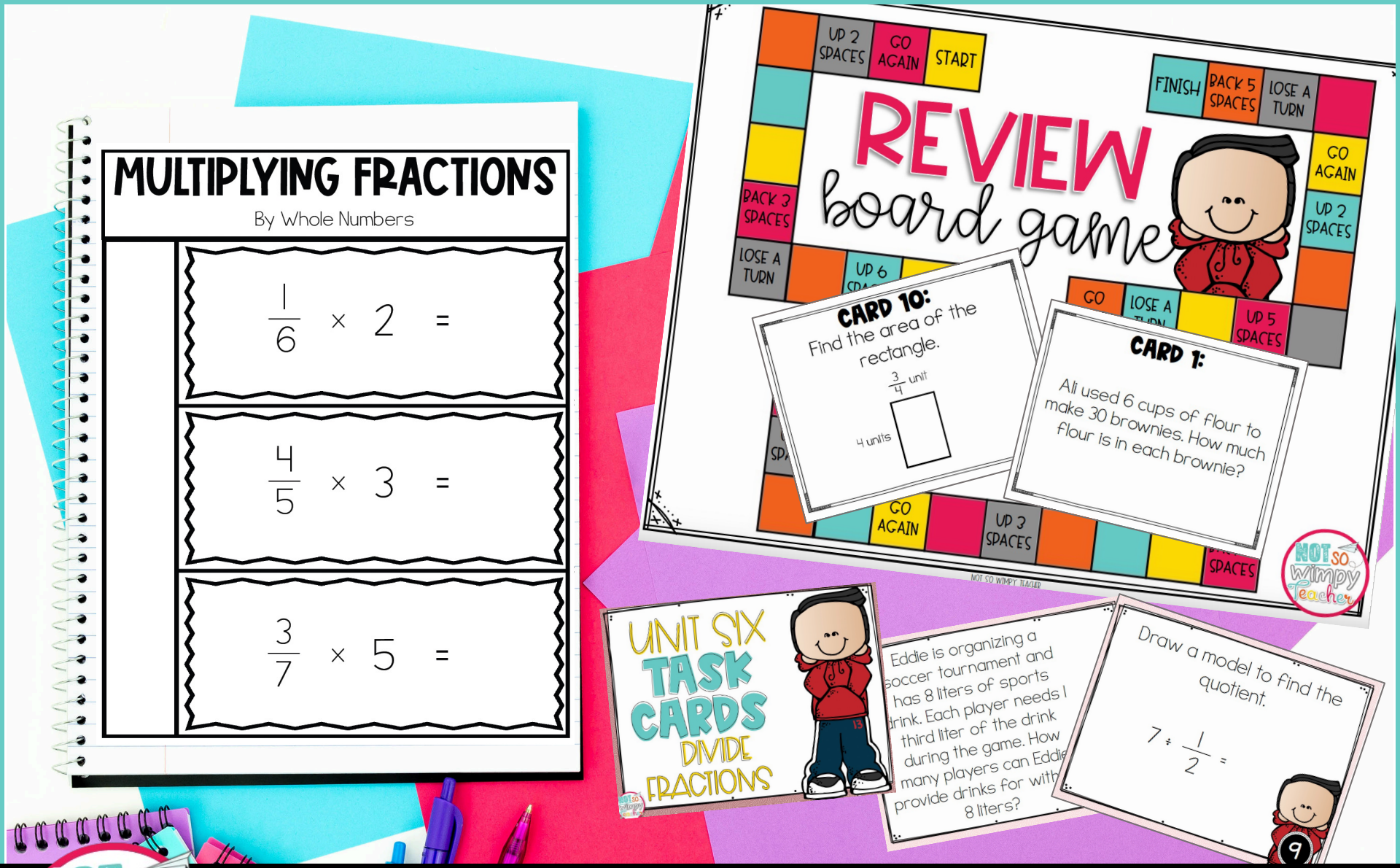
A basket of nuts is 5 pounds. Alisha is separating the nuts into 1 fourth pound bags. How many bags can she make?



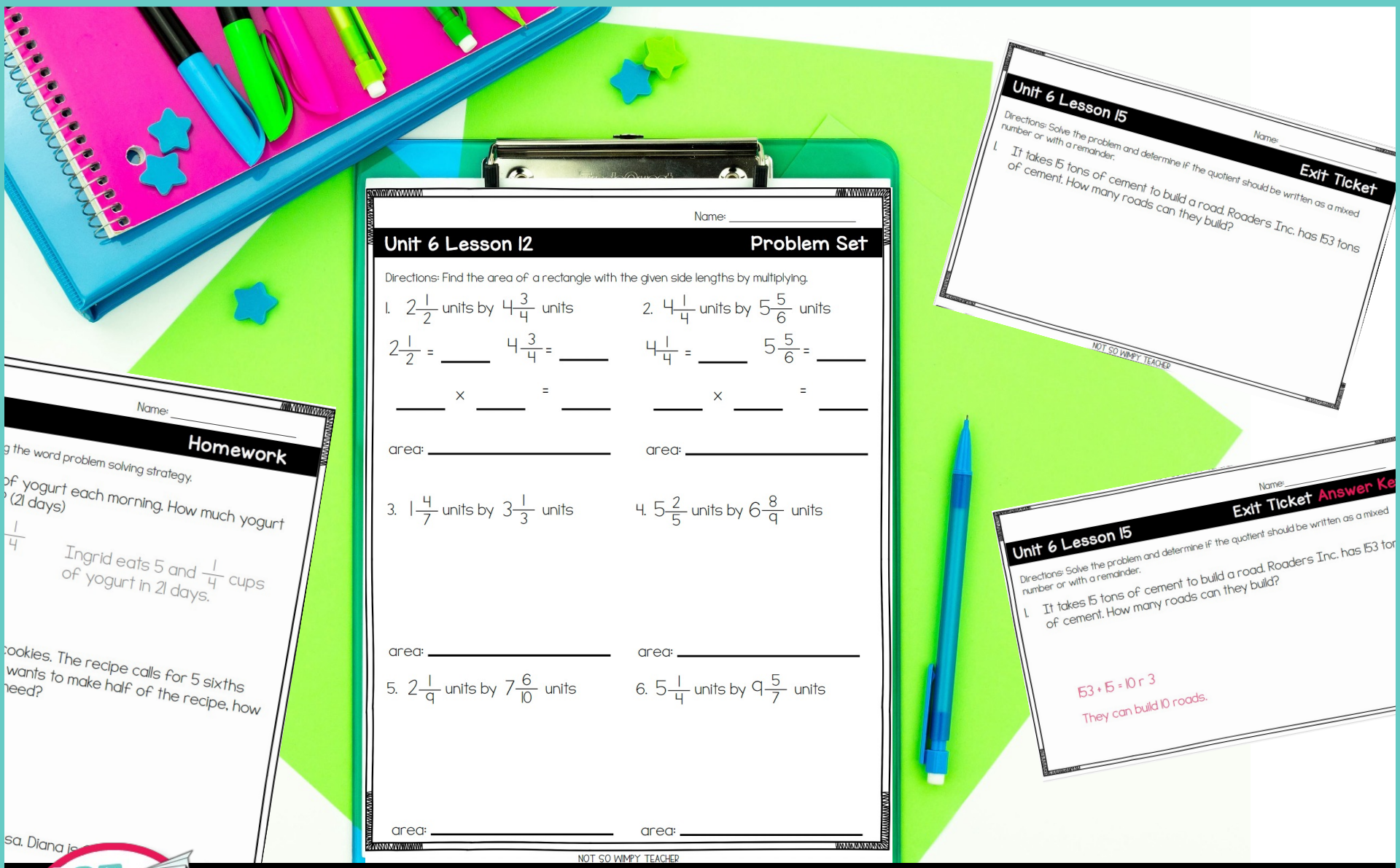
$5 \div \frac{1}{4} = 20$

Alisha can make 20 bags.

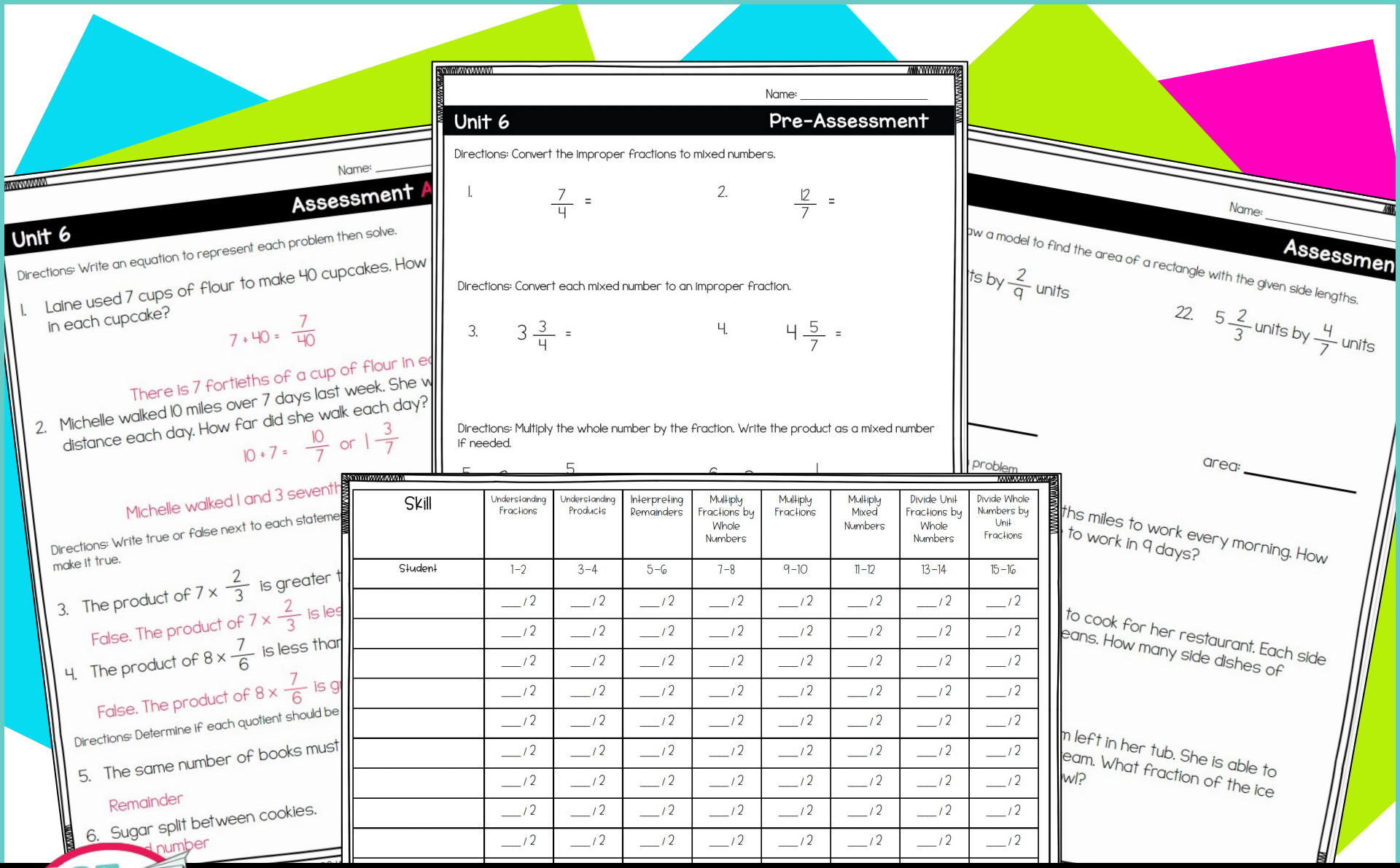
Deliver great lessons with step-by-step PowerPoints for teaching math skills.



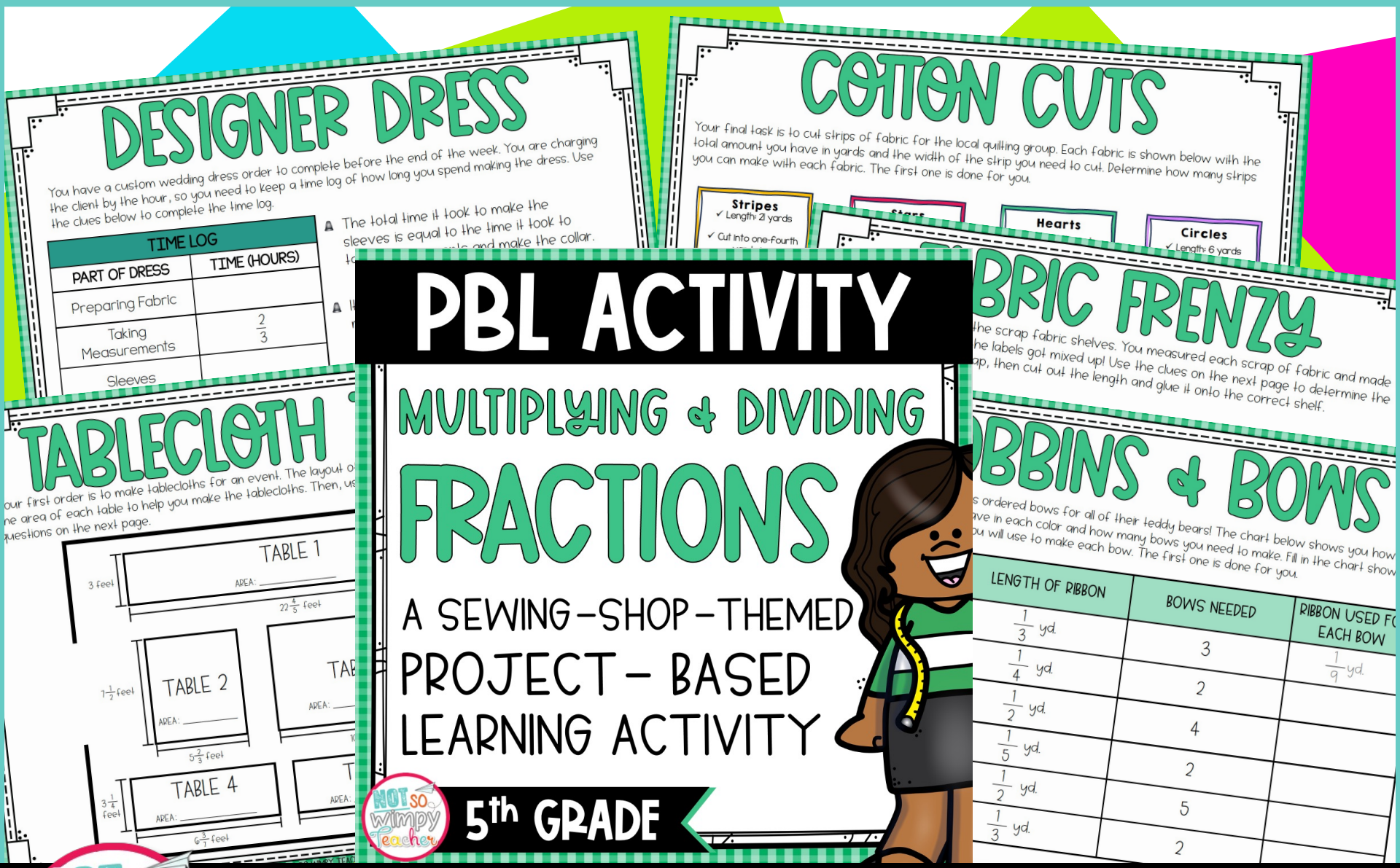
Get students excited with targeted, hands-on math activities & interactive notebooks.



Includes problem sets, homework, and exit tickets for each day.



Track student progress with pre- & post-assessments and recording sheet.



Includes a sewing-shop-themed project-based learning activity.



Name: _____

Unit 6 Lesson 2 — Homework

Directions: Use models

1. $\frac{2}{5} \times 4$

2. $\frac{3}{9} \times$

3. $\frac{4}{5}$

4. $\frac{8}{}$

6.15 INTERPRETING REMAINDERS

I CAN STATEMENT	MATERIALS	VOCABULARY
I can interpret remainders in division problems.	6.15 PPT 6.15 printouts	fraction numerator denominator dividend divisor quotient remainder

MINI LESSON

Spend the first few minutes of the lesson completing the fact fluency slides. These slides allow students to practice their multiplication fluency with larger factors.

Using the PPT, complete the warm-up with students. The warm-up is a review of finding the area of rectangles.

Using the PPT, review the following vocabulary terms: fraction, numerator, and denominator. Then, introduce the students to the terms: dividend, divisor, quotient, and remainder. Tell the students that today we will be working with division problems to determine how to write quotients.

Model how to solve a problem with dividing balloons between guests at a party. Ask the students if the quotient should be written as a mixed number or with a remainder. Prompt the students to think about if they can give each guest a fraction of a balloon.

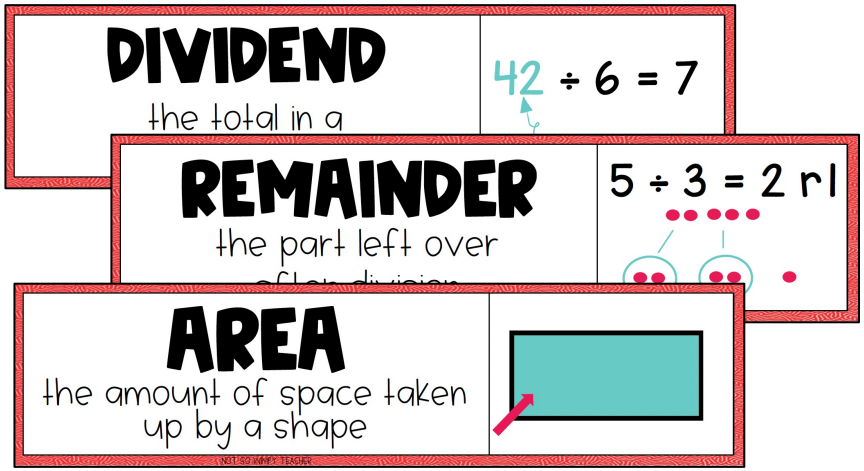
Continue using the PPT to interpret remainders in division problems.

INTERVENTION

Have students circle the item being divided, then ask them to think about if the item could physically be partitioned or not.

EXTENSION

Are there problems where the quotient could be written as a remainder and a mixed number? Give an example.



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Teach with confidence; each day is fully planned for you with all the tools you need!