

# WORD PROBLEMS

# STRIP DIAGRAMS

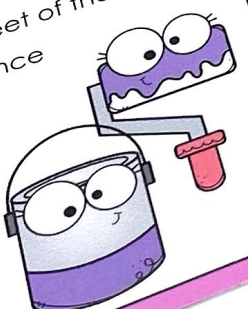
Every is making 6 trays of apple  
They need 7 apples to make  
in tray of apple crisp. How many  
es are needed?



Ruiz needs to buy popsicles for  
students who memorized their  
multiplication facts.  
box has 6 popsicles.  
many boxes of  
icles does she  
to buy?



ence. Each gallon  
6 feet of the fence.  
f fence  
with  
nt?



**W** EQUAL GROUPS MODEL

|   |   |   |
|---|---|---|
| ? | ? | ? |
|---|---|---|

**21** Evan's goal is to ride her bike 42 miles  
in 7 days. She plans to ride the same  
number of miles each day. How many  
miles does she need to ride each day  
to meet her goal?



**V** EQUAL GROUPS MODEL

|   |   |   |
|---|---|---|
| 7 | 7 | 7 |
|---|---|---|

**U** EQUAL GROUPS MODEL

|   |   |
|---|---|
| 6 | ? |
|---|---|

**X** EQUAL GROUPS MODEL

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 6 | 6 | 6 | 6 | 6 | 6 |
|---|---|---|---|---|---|



9. Circle the Unknown:  
Total: Number of Groups:  
Number in Each Group:  
Model Card:  
Equation:  
Answer:

10. Circle the Unknown:  
Total: Number of Groups:  
Number in Each Group:  
Model Card:  
Equation:  
Answer:

11. Circle the Unknown:  
Total: Number of Groups:  
Number in Each Group:  
Model Card:  
Equation:  
Answer:

12. Circle the Unknown:  
Total: Number of Groups:  
Number in Each Group:  
Model Card:  
Equation:  
Answer:

13. Circle the Unknown:  
Total: Number of Groups:  
Number in Each Group:  
Model Card:  
Equation:  
Answer:

14. Circle the Unknown:  
Total: Number of Groups:  
Number in Each Group:  
Model Card:  
Equation:  
Answer:

# Easy-to-Use Math Station

24 Word Problems  
with 24  
matching  
Strip  
Diagrams



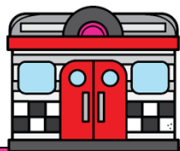
# Perfect for Test Prep

## to Select the Correct Strip Diagram

1

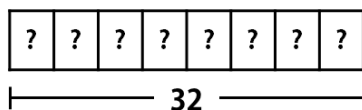
EQUAL GROUPS PROBLEM

A diner has 4 sections of tables with 8 tables in each section. How many tables are there altogether?



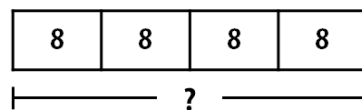
A

EQUAL GROUPS MODEL



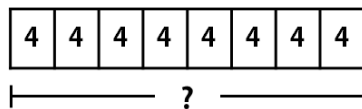
B

EQUAL GROUPS MODEL



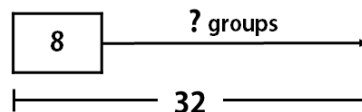
C

EQUAL GROUPS MODEL



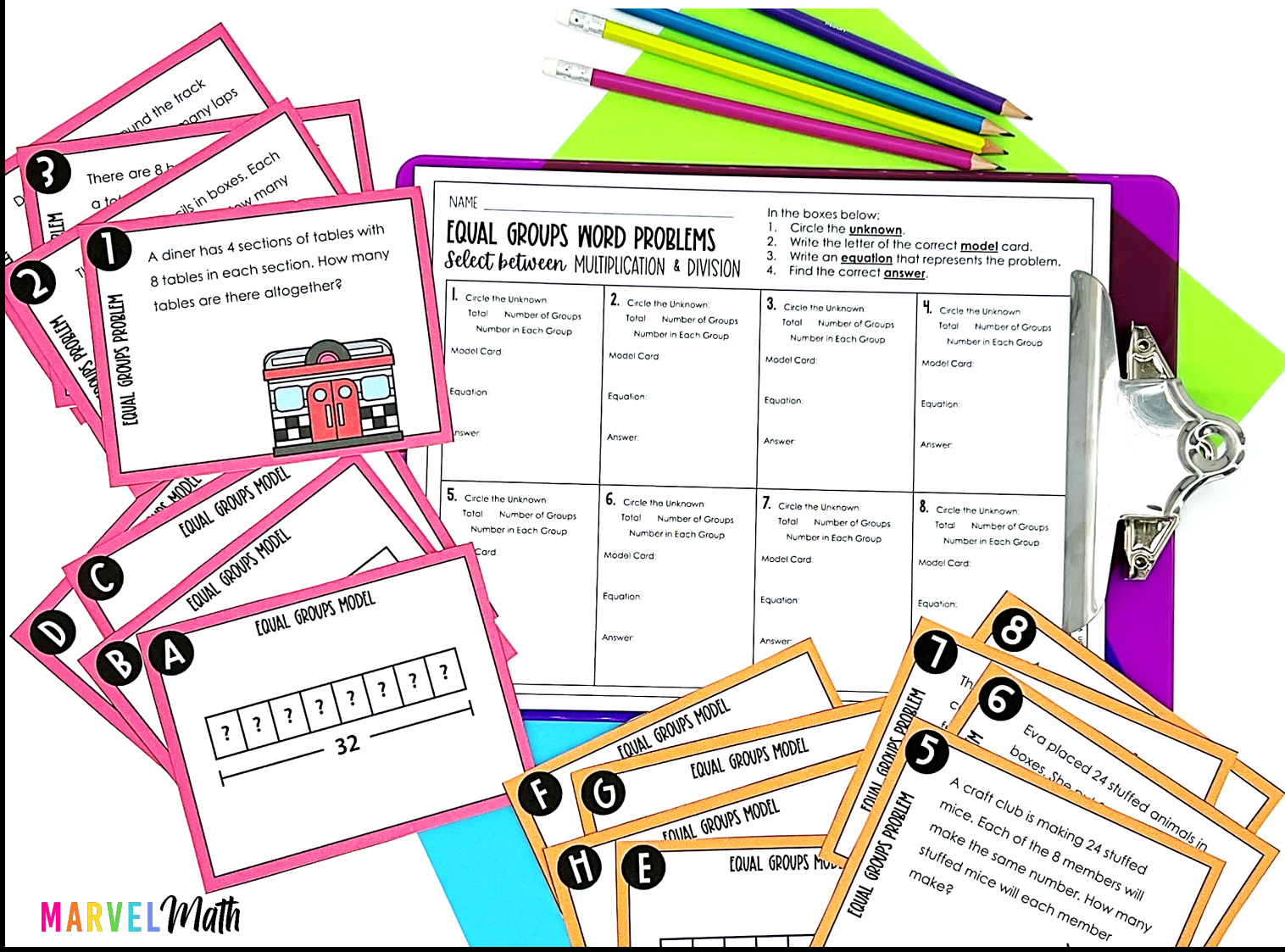
D

EQUAL GROUPS MODEL



# Essential Practice

Students need to  
master word problems



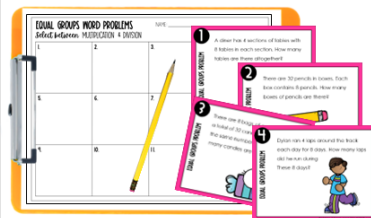
# Differentiation Built In

Includes a teacher guide to use this product with leveled ability groups

## HOW CAN I USE THIS RESOURCE?

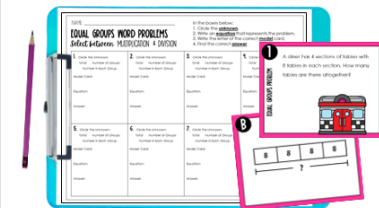
### Level 1:

Have students solve the word problem cards.



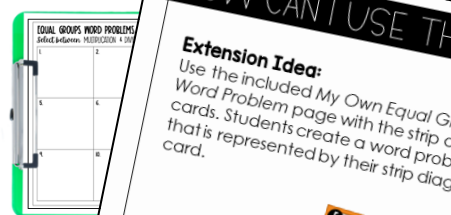
### Level 3:

Have students identify the unknown, match the word problem to the correct strip diagram card, and write an equation to represent the problem and solve.



### Level 2:

Have students match the word problem to the correct strip diagram card and solve. Each set of 4 word problem cards has 4 model cards that have the same color background. Problems 1-4 will be matched with models A-D. Problems 5-8 will be matched with models E-H and so on. You could even set up 6 stations in a room that students rotate through.



### Extension Idea:

Use the included My Own Equal Groups cards. Students create a word problem that is represented by their strip diagram.



### Test Prep Idea:

Each set of 4 problems on a page uses similar numbers. Those 4 problems are related to the 4 strip diagrams on the following page. Display one word problem along with the 4 strip diagrams on the following page and have students select the correct strip diagram.

i.e. Display problem #1 with Strip Diagrams A, B, C & D. Display problem #5 with Strip Diagrams E, F, G, & H, and so on.

On the next day, display problem #2 with Strip Diagrams A, B, C & D. Display problem #6 with Strip Diagrams E, F, G & H, and so on.

If you follow this routine you will give students 6 problems each day for 4 days.

# How Can I Use These?

- Whole Class Modeling
- Small Group Lesson or Tutoring
- Math Station



# 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.

