

LONG DIVISION

NO REMAINDERS



4 MINI-LESSONS

Division without Remainders: Partial Quotient

$$\begin{array}{r} 6 \overline{) 462} \\ - 360 \\ \hline 102 \\ - 60 \\ \hline 42 \\ - 42 \\ \hline 0 \end{array}$$

Step 1: Multiply the 6 by any number that will go into 462. $60 \times 6 = 360$

Step 2: Subtract (360).

Step 3: Multiply the 6 by any number that will go into 102. The goal is to keep going till we get to 0. $10 \times 6 = 60$

Step 4: Subtract (60).

Step 5: Multiply the 6 by any number that will go into 42. $7 \times 6 = 42$

Step 6: Subtract (42).

Step 7: Add up all your partial answers to get the real answer! $60 + 10 + 7 = 77$

$$\begin{array}{r} 8 \overline{) 480} \\ - 480 \\ \hline 0 \end{array}$$

$60 \times 8 = 480$

$5 \times 8 = 40$

$60 + 5 = 65$

Division without Remainders: Area Model

$$333 \div 9 = 37$$

$9 \times 100 = 900$ Too big!	$9 \times 30 = 270$	$9 \times 7 = 63$
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$$\begin{array}{r} 333 \\ - 270 \\ \hline 63 \end{array}$$
$$\begin{array}{r} 63 \\ - 63 \\ \hline 0 \end{array}$$

Step 1: Draw your boxes. Write the divisor on the side.

Step 2: Try to multiply by hundreds. This takes you over 333 so cross it out.

Step 3: Try to multiply by tens. You multiply by 30 to 270.

Step 4: Subtract this from your starting number. $333 - 270 = 63$.

Step 5: Multiply by ones in the last box. Multiply 7 to get to the 63 left.

Step 6: Subtract 63 from your running total. $63 - 63 = 0$.

Step 7: Add up all your answers to get the final answer. $30 + 7 = 37$.

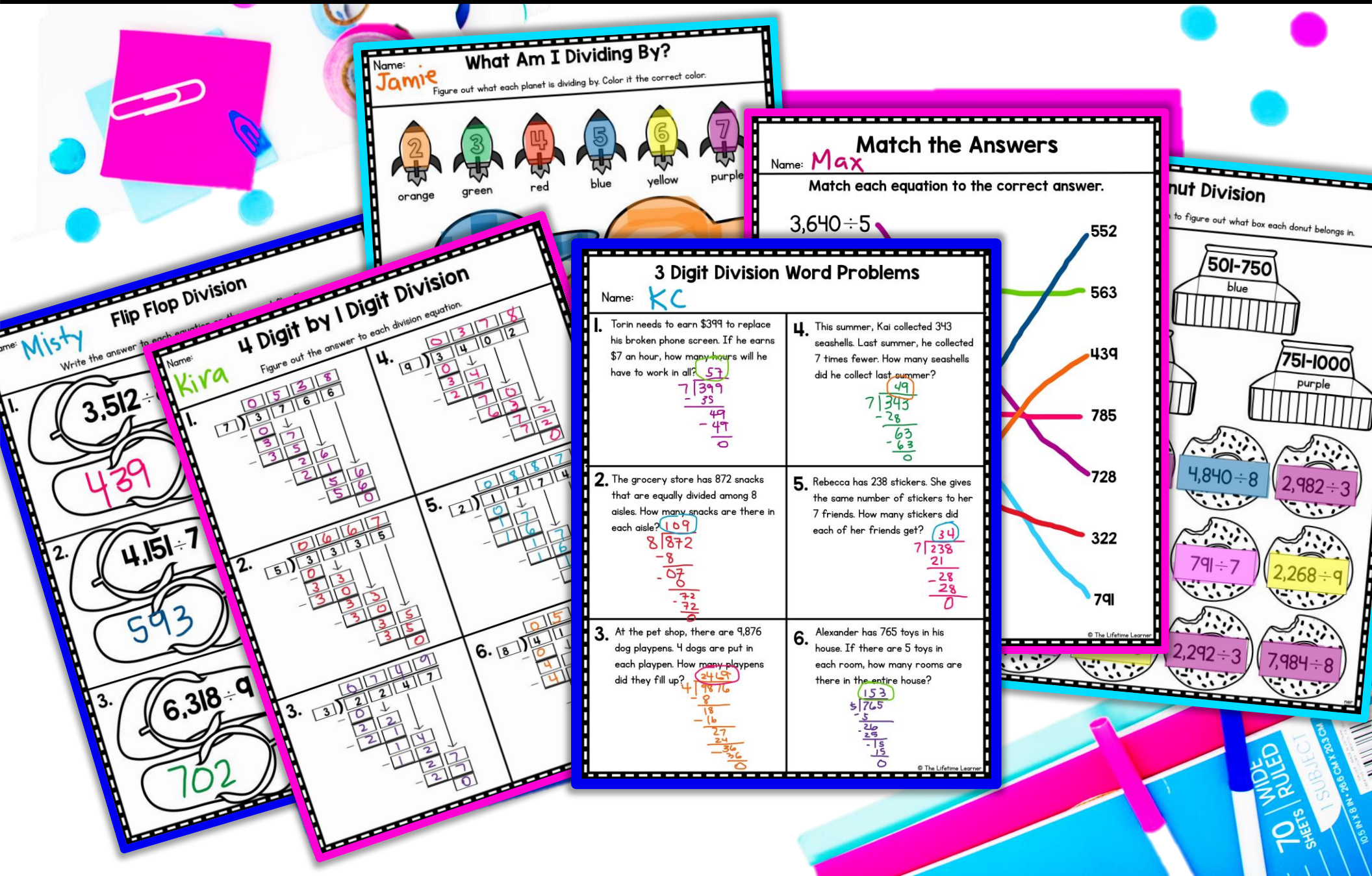
$$225 \div 5 = 45$$

$5 \times 100 = 500$	$5 \times 40 = 200$	$5 \times 5 = 25$
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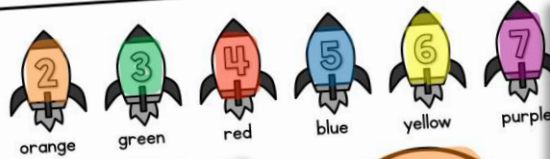
$$\begin{array}{r} 225 \\ - 200 \\ \hline 25 \end{array}$$
$$\begin{array}{r} 25 \\ - 25 \\ \hline 0 \end{array}$$

- algorithm
- partial quotient
- area model
- box method

10 WORKSHEETS



Name: **Jamie**
What Am I Dividing By?
Figure out what each planet is dividing by. Color it the correct color.



Name: **Max**
Match the Answers

Match each equation to the correct answer.

$$3,640 \div 5$$

552

563

439

785

728

322

791

3 Digit Division Word Problems

Name: **KC**

1. Torin needs to earn \$399 to replace his broken phone screen. If he earns \$7 an hour, how many hours will he have to work in all?

$$\begin{array}{r} 57 \\ 7 \overline{) 399} \\ \underline{35} \\ 49 \\ \underline{49} \\ 0 \end{array}$$

4. This summer, Kai collected 343 seashells. Last summer, he collected 7 times fewer. How many seashells did he collect last summer?

$$\begin{array}{r} 49 \\ 7 \overline{) 343} \\ \underline{28} \\ 63 \\ \underline{63} \\ 0 \end{array}$$

2. The grocery store has 872 snacks that are equally divided among 8 aisles. How many snacks are there in each aisle?

$$\begin{array}{r} 109 \\ 8 \overline{) 872} \\ \underline{8} \\ 07 \\ \underline{07} \\ 02 \\ \underline{02} \\ 0 \end{array}$$

5. Rebecca has 238 stickers. She gives the same number of stickers to her 7 friends. How many stickers did each of her friends get?

$$\begin{array}{r} 34 \\ 7 \overline{) 238} \\ \underline{21} \\ 28 \\ \underline{28} \\ 0 \end{array}$$

3. At the pet shop, there are 9,876 dog playpens. 4 dogs are put in each playpen. How many playpens did they fill up?

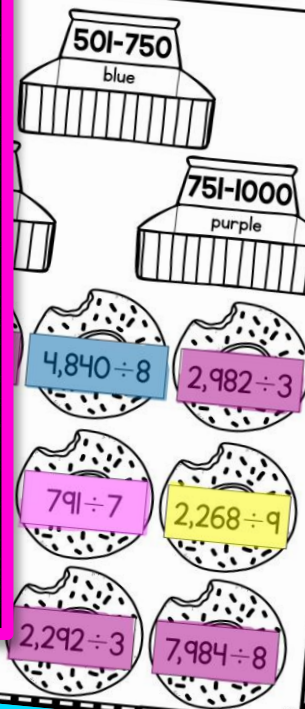
$$\begin{array}{r} 2469 \\ 4 \overline{) 9876} \\ \underline{8} \\ 18 \\ \underline{16} \\ 27 \\ \underline{24} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

6. Alexander has 765 toys in his house. If there are 5 toys in each room, how many rooms are there in the entire house?

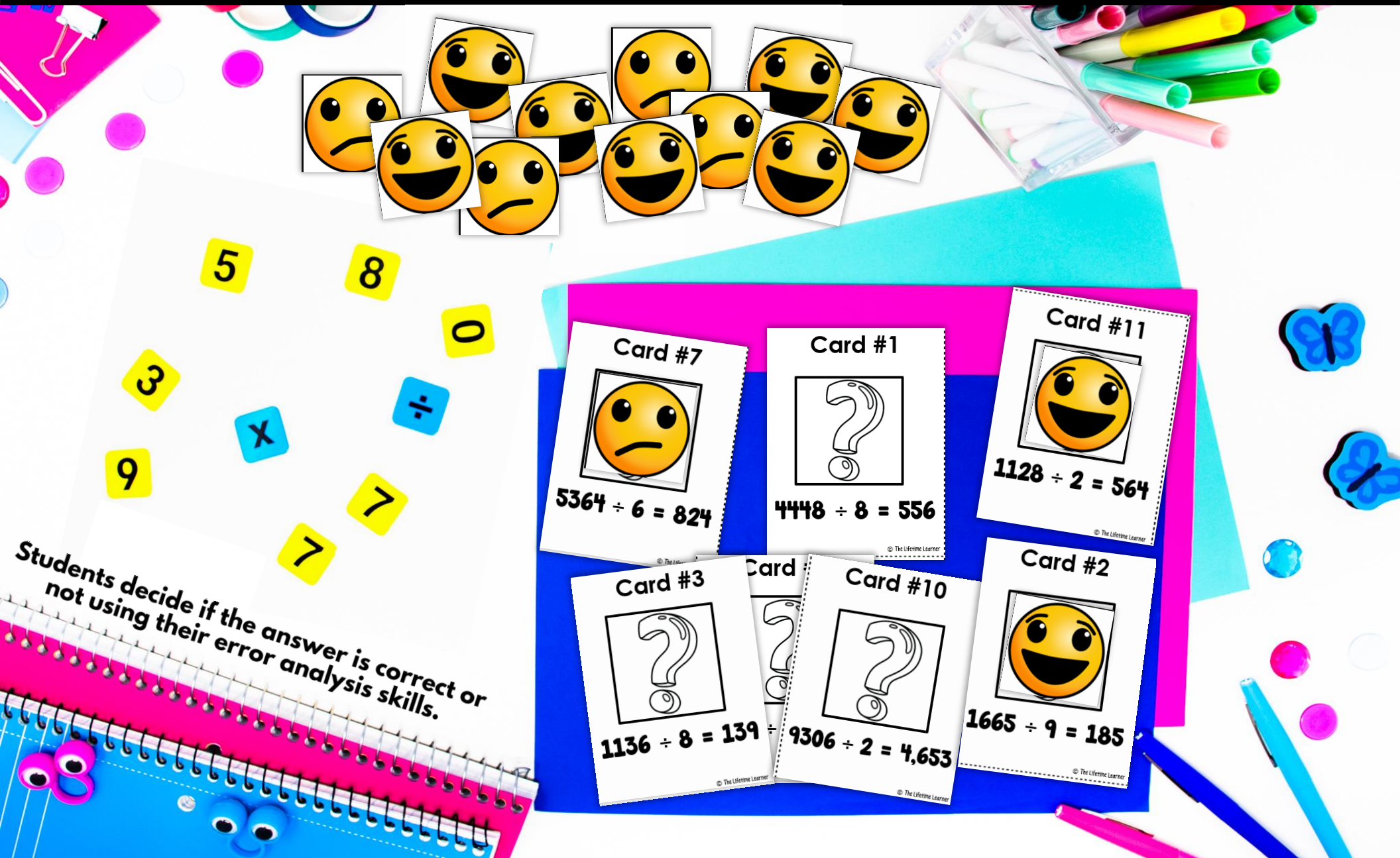
$$\begin{array}{r} 153 \\ 5 \overline{) 765} \\ \underline{5} \\ 26 \\ \underline{25} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

Donut Division

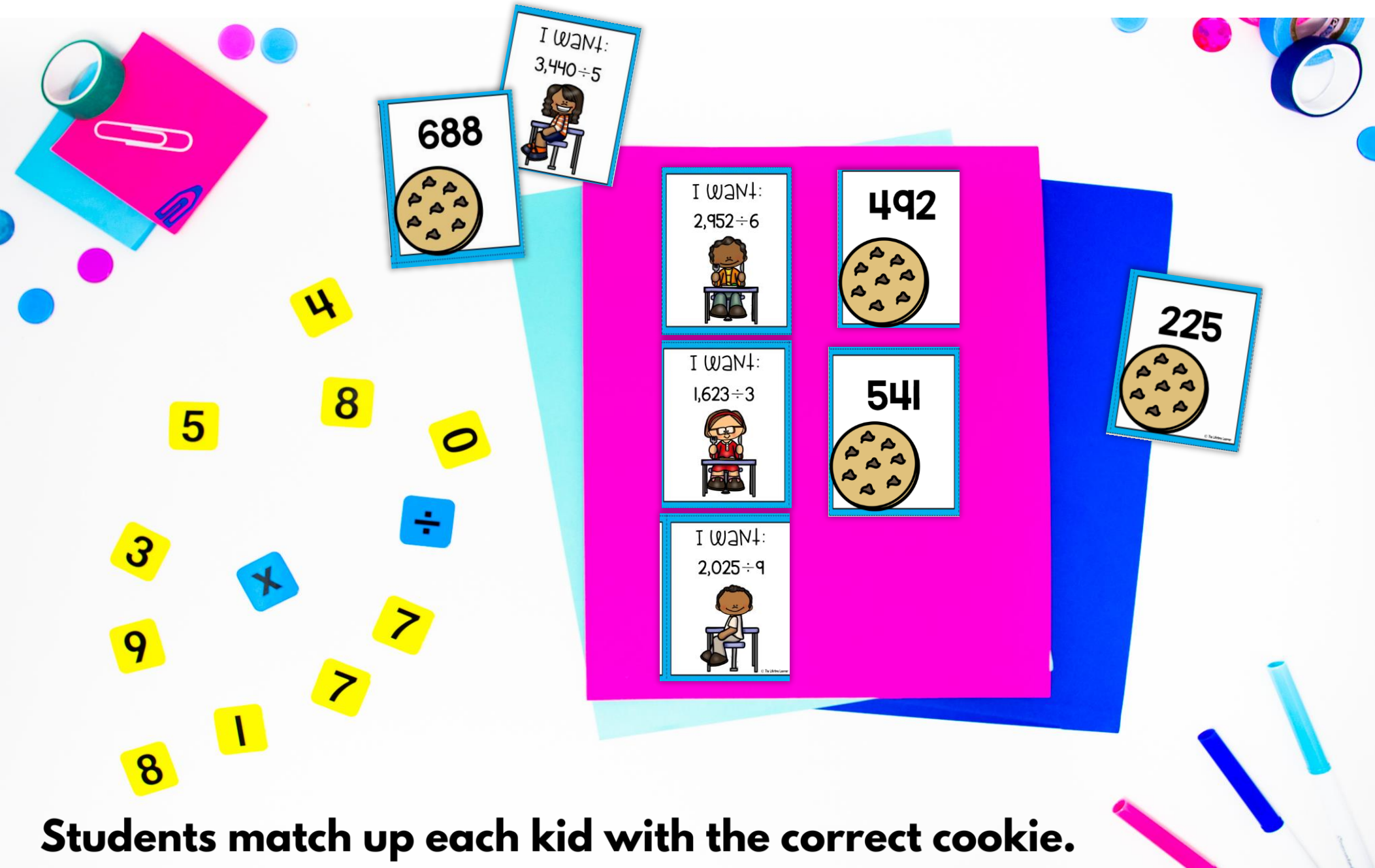
Figure out what box each donut belongs in.



MATH SORT



MATCHING GAME



Students match up each kid with the correct cookie.

GAME #1



A. $312 \div 6$

52



B. $252 \div 4$

63



71

D. $639 \div 9$

Students put a check or an X
on each kid's work.

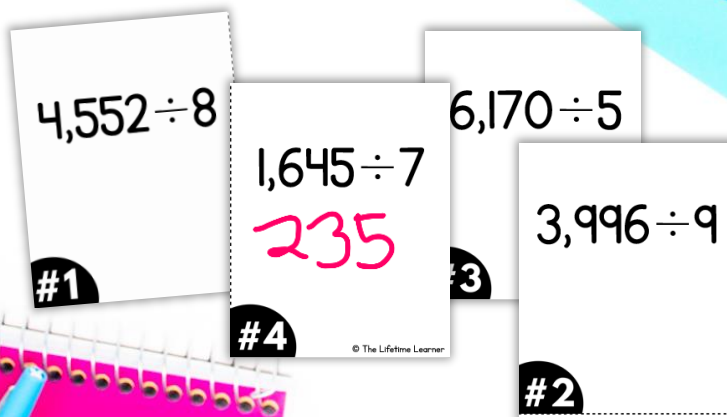
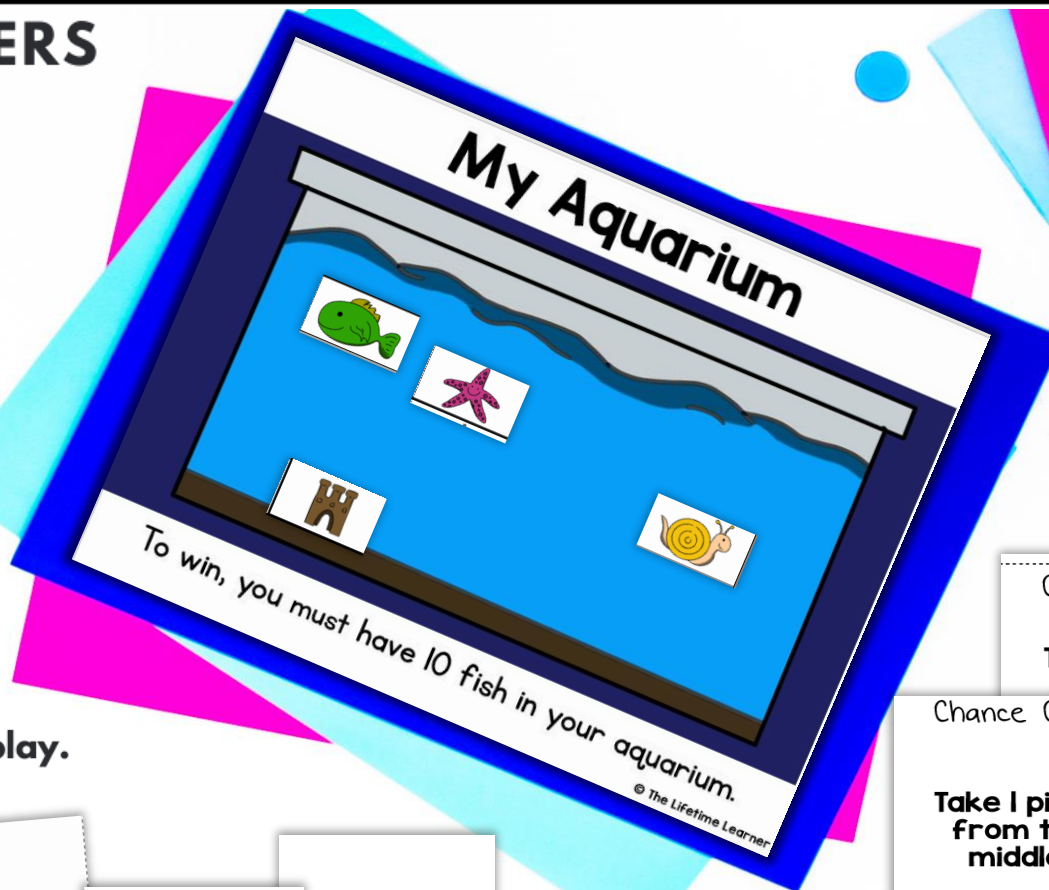
GAME #2

FOR 2-4 PLAYERS



HOW TO PLAY:

1. All players receive a game mat.
2. Students answer a question card.
3. If they are correct, they earn an item.
4. The first person to earn 10 items wins.
5. Chance cards included to spice up gameplay.



GAME #3



LINE THEM UP!

START!

$1,435 \div 5$

287

$1,332 \div 4$

333

$4,944 \div 6$

824

$8,102 \div 2$

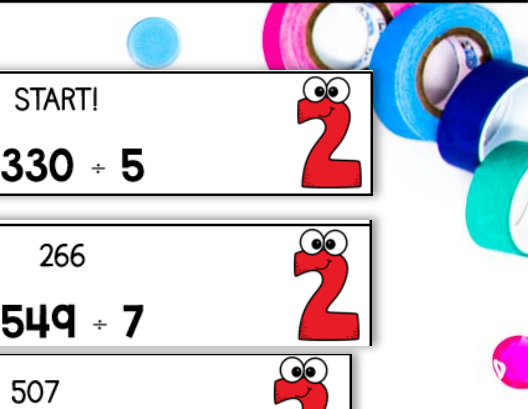
4,051

$1,647 \div 9$

LINE THEM UP!

629

FINISH!



LINE THEM UP!

START!

$1,330 \div 5$

266

$3,549 \div 7$

507

$1,536 \div 8$

192

$1,887 \div 3$

629

$8,685 \div 9$

LINE THEM UP!

3,201

FINISH!

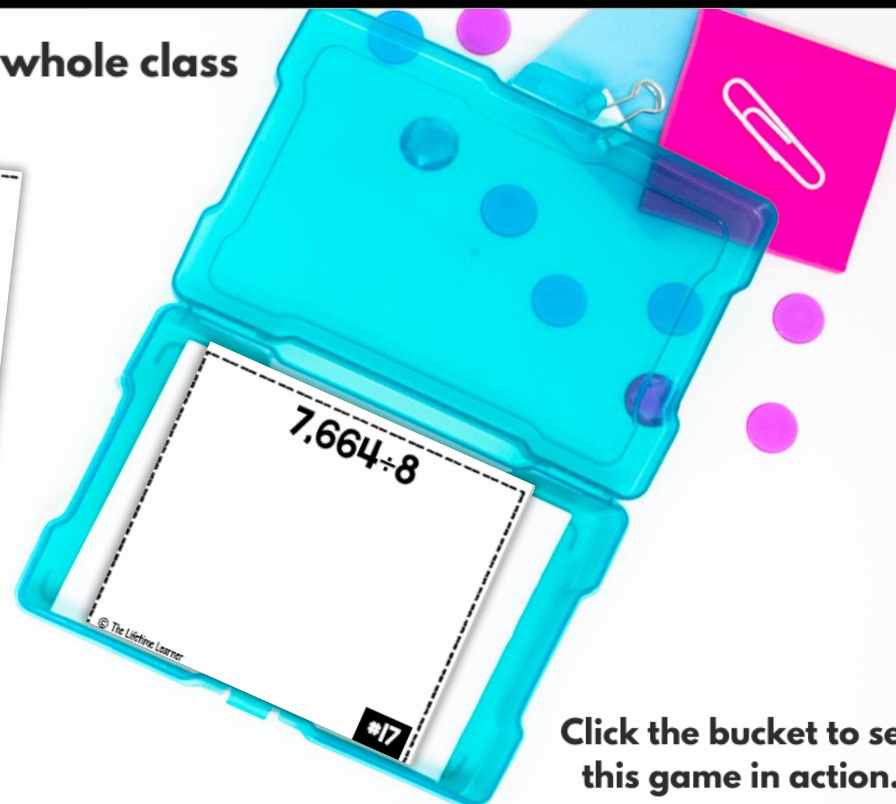
HOW TO PLAY:

- Students pair up in teams.
- Students race to line up their cards in order before the other team.



GAME #4

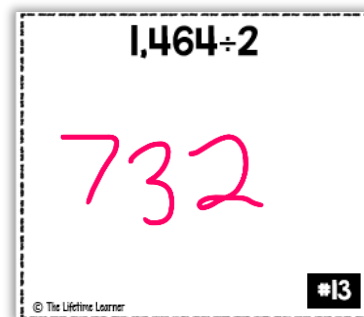
the perfect game to play with the whole class



Click the bucket to see this game in action.

HOW TO PLAY:

1. Students answer task cards.
2. If they get it right, they drop it in the bucket.
3. Students play for a set amount of time.
4. At the end of gameplay, the teacher draws task cards out of the bucket.
5. Any student whose task card gets pulled out gets a small prize.



BUY THE BUNDLE AND SAVE BIG!

4TH GRADE MATH BUNDLE

Partial Products
Name: *ericka*
Use your knowledge of partial products to solve each equation.

1. Equations: $2 \times 5,096$
 $5000 \times 2 = 10000$
 $0 \times 2 = 0$
 $90 \times 2 = 180$
 $6 \times 2 = 12$

2. Equations: $4 \times 8,923$
 $8000 \times 4 = 32000$
 $900 \times 4 = 3600$
 $20 \times 4 = 80$
 $3 \times 4 = 12$

3. Equations: $8 \times 5,624$
 $5000 \times 8 = 40000$
 $600 \times 8 = 4800$
 $20 \times 8 = 160$
 $4 \times 8 = 32$

4. Equations: $5 \times 2,089$
 $2000 \times 5 = 10000$
 $0 \times 5 = 0$
 $80 \times 5 = 400$
 $9 \times 5 = 45$

My Space Scene
To win, you must have 10 items in your space scene.
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6000+ PAGES

GAMES **ACTIVITIES** **WORKSHEETS**

YOU MAY ALSO LIKE:

GROCERY store **long division**
4.NBT.6



333 ÷ 9
410 ÷ 5
85 ÷ 5

4th GRADE
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EDITABLE
ROOM TRANSFORMATION

LET'S GO CAMPING **division WORD PROBLEMS**
4.NBT.6



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EDITABLE
ROOM TRANSFORMATION

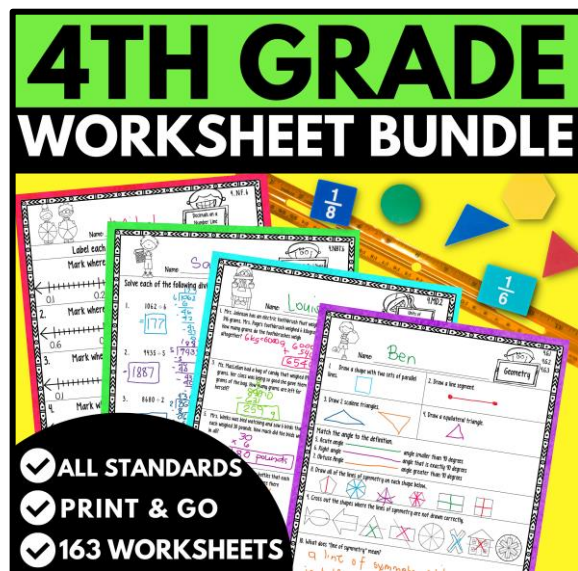
PARTY planner **multiply & divide review**
3.OA.8



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4TH GRADE WORKSHEET BUNDLE



ALL STANDARDS
PRINT & GO
163 WORKSHEETS

GRAB IT! 35 MATH GAMES
4TH GRADE



GRAB IT!
 $1\frac{4}{5} \div 2\frac{1}{5} =$

THE LIFETIME LEARNER

4TH GRADE BUNDLE TASK CARDS



DIGITAL
PRINTABLE
130 GAMES

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