

MULTIPLICATION & DIVISION

FACT FAMILIES

Multiplication and Division Fact Families

Use your knowledge of fact families to write an equation to help you find the answer.

Addition + Subtraction Fact Family
 2, 3, 5
 $2 + 3 = 5$ $5 - 2 = 3$
 $3 + 2 = 5$ $5 - 3 = 2$

Multiplication & Division Fact Family
 2, 5, 10
 $2 \times 5 = 10$
 $5 \times 2 = 10$
 $10 \div 2 = 5$
 $10 \div 5 = 2$

Fact Family Triangles

Fact Families help you solve multiplication and division equations!
 $24 \div ? = 3$
 The fact family turns it into:
 $24 \div 3 = ?$
 $3 \times ? = 24$
 $? \times 3 = 24$

Choose a fact family equation from above that you are able to solve to find how much the ? mark is.
 $24 \div 3 = 8$
 $3 \times 8 = 24$
 $8 \times 3 = 24$

My Theme Park

To win, you must have 10 items in your theme park.

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63 ÷ - = 9

#13

Which Does Not Belong?

There is an incorrect fact family written in each box. Circle it and rewrite it.

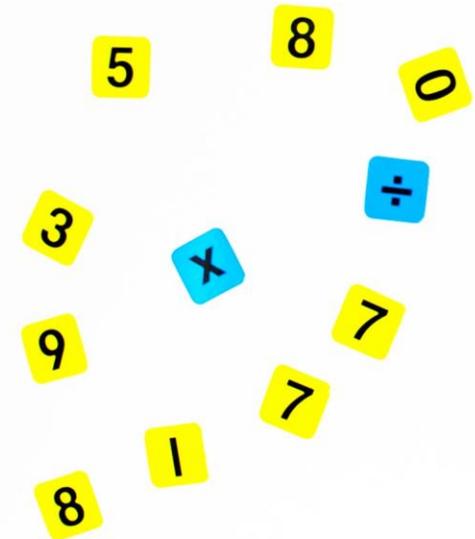
Name: NON

$10 \div 5 = 2$ $10 \div 2 = 5$ $5 \times 5 = 10$ $2 \times 5 = 10$	$7 \times 5 = 8$ $8 \times 7 = 56$ $56 \div 8 = 7$ $56 \div 7 = 8$
$5 \times 2 = 10$	$7 \times 8 = 56$
$8 \times 3 = 24$ $3 \times 8 = 24$ $8 \div 3 = 24$ $24 \div 3 = 8$	$5 \times 6 = 5$ $30 \div 5 = 6$ $30 \div 6 = 5$ $6 \times 5 = 3$
$24 \div 8 = 3$	$5 \times 6 = 3$
$36 \div 4 = 9$ $36 \div 9 = 4$ $4 \times 36 = 9$ $9 \times 4 = 36$	$8 \times 2 = 1$ $2 \times 8 = 1$ $16 \div 8 = 2$ $16 \div 2 = 8$

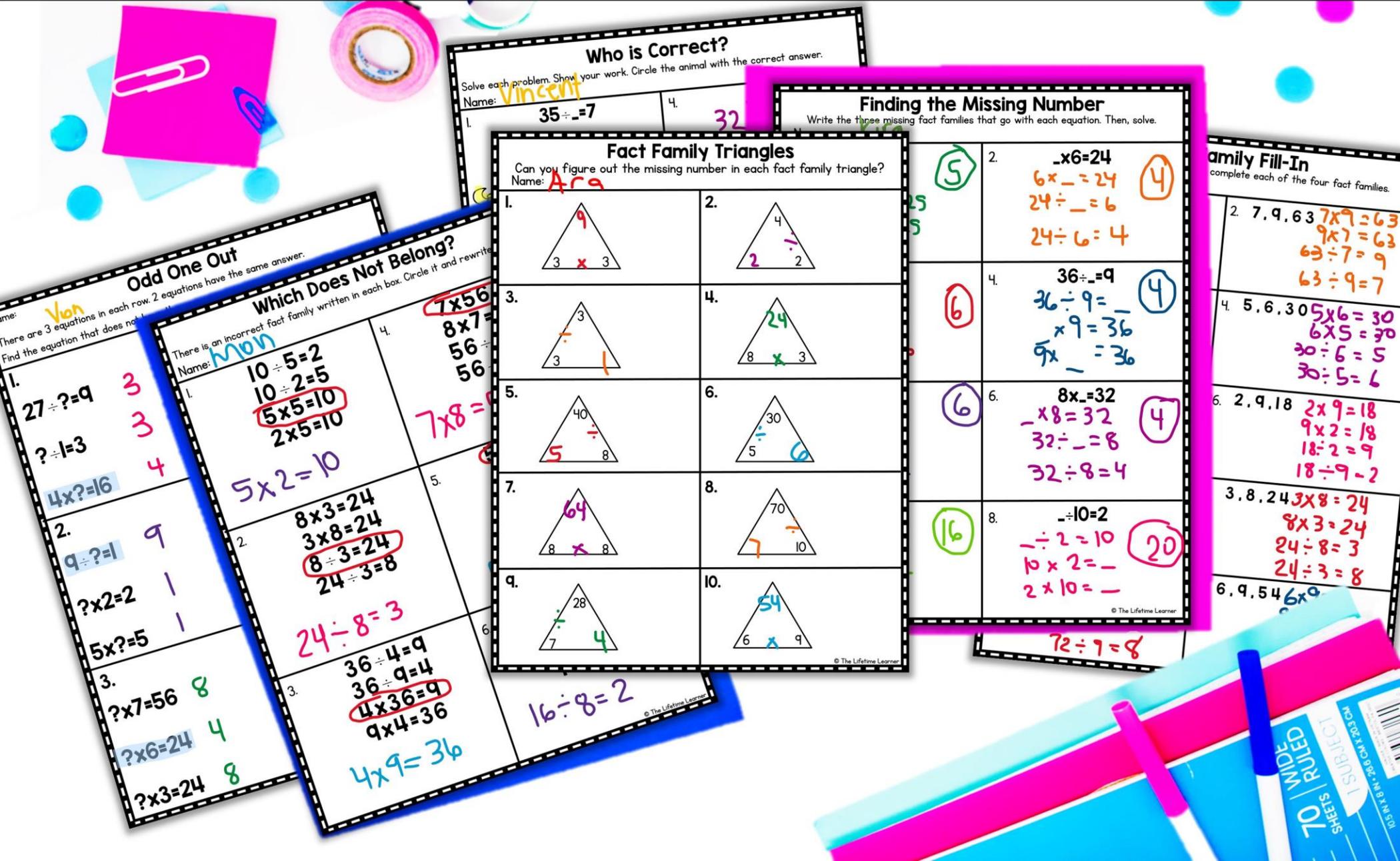
- ✓ GAMES
- ✓ ACTIVITIES
- ✓ WORKSHEETS

MINI LESSON

Multiplication and Division Fact Families			
Addition + Subtraction Fact Family 2, 3, 5 $2 + 3 = 5$ $5 - 2 = 3$ $3 + 2 = 5$ $5 - 3 = 2$		Use your knowledge of fact families to write an equation to help you find the answer. $35 \div 7 = 5$ $7 \times 5 = 35$ $5, 10, 15, 20, 25, 30, 35$	
Multiplication & Division Fact Family 2, 5, 10 $10 \div 2 = 5$ $2 \times 5 = 10$ $10 \div 5 = 2$ $5 \times 2 = 10$		3, 4, 12 6, 8, 48 $3 \times 4 = 12$ $6 \times 8 = 48$ $4 \times 3 = 12$ $8 \times 6 = 48$ $12 \div 4 = 3$ $48 \div 8 = 6$ $12 \div 3 = 4$ $48 \div 6 = 8$	
Fact Family Triangles 		Fact Families help you solve multiplication and division equations! $24 \div ? = 3$ The fact family turns it into: $24 \div 3 = ?$ $3 \times ? = 24$ $? \times 3 = 24$ Choose a fact family equation from above that you are able to solve to find how much the ? mark is. $24 \div 3 = 8$ $3, 6, 9, 12, 15, 18, 21, 24$	
$16 \div 4 = 4$ $16 \div 4 = 4$ $4, 8, 12, 16$	$2 \times 8 = 16$ $16 \div 8 = 2$ $8, 16$	$4 \div 2 = 2$ $2 \times 2 = 4$ $::$	$3 \times 2 = 6$ $6 \div 3 = 2$



10 WORKSHEETS



Who is Correct?

Solve each problem. Show your work. Circle the animal with the correct answer.

Name: Vincent

1. $35 \div _ = 7$ 4. $_ \div 3 = 32$

Finding the Missing Number

Write the three missing fact families that go with each equation. Then, solve.

Fact Family Triangles

Can you figure out the missing number in each fact family triangle?

Name: Ara

1.	2.
3.	4.
5.	6.
7.	8.
9.	10.

1. $_ \times 6 = 24$ 2. $_ \times 6 = 24$
 $24 \div _ = 6$ $24 \div _ = 6$
 $24 \div 6 = 4$ $24 \div 6 = 4$

3. 5 5

4. $36 \div _ = 9$ 4. $36 \div 9 = _$
 $_ \times 9 = 36$ $_ \times 9 = 36$
 $9 \times _ = 36$ $9 \times _ = 36$

6. $8 \times _ = 32$ 6. $_ \times 8 = 32$
 $_ \div 8 = 4$ $32 \div _ = 8$
 $32 \div 8 = 4$ $32 \div 8 = 4$

8. $_ \div 10 = 2$ 8. $_ \div 2 = 10$
 $10 \times 2 = _$ $10 \times 2 = _$
 $2 \times 10 = _$ $2 \times 10 = _$

Family Fill-In

Complete each of the four fact families.

2. 7, 9, 63 $7 \times 9 = 63$
 $9 \times 7 = 63$
 $63 \div 7 = 9$
 $63 \div 9 = 7$

4. 5, 6, 30 $5 \times 6 = 30$
 $6 \times 5 = 30$
 $30 \div 6 = 5$
 $30 \div 5 = 6$

6. 2, 9, 18 $2 \times 9 = 18$
 $9 \times 2 = 18$
 $18 \div 2 = 9$
 $18 \div 9 = 2$

3, 8, 24 $3 \times 8 = 24$
 $8 \times 3 = 24$
 $24 \div 8 = 3$
 $24 \div 3 = 8$

6, 9, 54 $6 \times 9 = 54$
 $9 \times 6 = 54$
 $54 \div 9 = 6$
 $54 \div 6 = 9$

Odd One Out

There are 3 equations in each row. 2 equations have the same answer. Find the equation that does not.

Name: Von

1. $27 \div ? = 9$ 3
 $? \div 1 = 3$ 3
 $4 \times ? = 16$ 4

2. $9 \div ? = 1$ 9
 $? \times 2 = 2$ 1
 $5 \times ? = 5$ 1

3. $? \times 7 = 56$ 8
 $? \times 6 = 24$ 4
 $? \times 3 = 24$ 8

Which Does Not Belong?

There is an incorrect fact family written in each box. Circle it and rewrite.

Name: Mon

1. $10 \div 5 = 2$
 $10 \div 2 = 5$
 $5 \times 5 = 10$
 $2 \times 5 = 10$

2. $8 \times 3 = 24$
 $3 \times 8 = 24$
 $8 \div 3 = 24$
 $24 \div 3 = 8$

3. $36 \div 4 = 9$
 $36 \div 9 = 4$
 $4 \times 36 = 9$
 $9 \times 4 = 36$

4. $7 \times 56 = _$
 $8 \times 7 = _$
 $56 \div 56 = _$

5. $7 \times 8 = _$
 $8 \times 7 = _$
 $56 \div 7 = _$

6. $16 \div 8 = 2$



ERROR ANALYSIS

Students decide if each kid solved the problem correctly or incorrectly. They explain their thinking at the bottom.

4 PAGES

Directions: Read the problem below and look at the work the student did. Decide if the work is correct or not.

What are the 4 fact family equations that belong with the numbers given below?

3, 4, 12



The student says:

$$3 \times 4 = 12$$

$$4 \times 3 = 12$$

$$3 \div 4 = 12$$

$$4 \div 3 = 12$$



Explain if they are right or wrong. Put a check or X on their work.

The student incorrectly wrote that $3/4$ is 12 and $4/3$ is 12, when they should have put $12/4=3$ and $12/3=4$.

MATH SORT



2 versions included

- fact families
- missing factors

Card #13

Write the missing fact family.
 $30 \div 6 = 5$ $5 \times 6 = 30$
 $30 \div 5 = 6$ $6 \times 5 = 30$
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Card #24

 $20 \div 4 = 5$ $5 \times 4 = 20$
 $4 \times 5 = 20$ $4 \div 5 = 20$
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Card #40

Find the missing number in the fact family triangle.

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Card #16

Write the missing fact family.
 $100 \div 10 = 10$ $10 \times 10 = 100$
 $10 \times 10 = 100$ $100 \div 10 = 50$
© The Lifetime Learner

Card #1

Which fact family does not belong?
 $42 \div 7 = 6$ $6 \times 7 = 40$
 $42 \div 6 = 7$ $7 \times 6 = 42$
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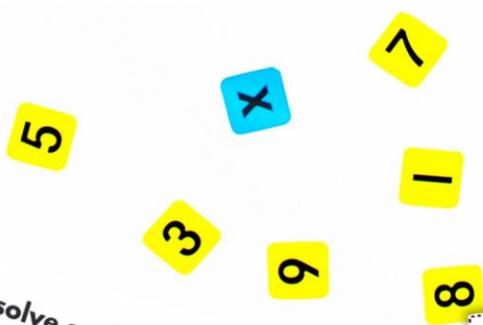
Card #4

 $36 \div \underline{3} = 9$
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Card #17

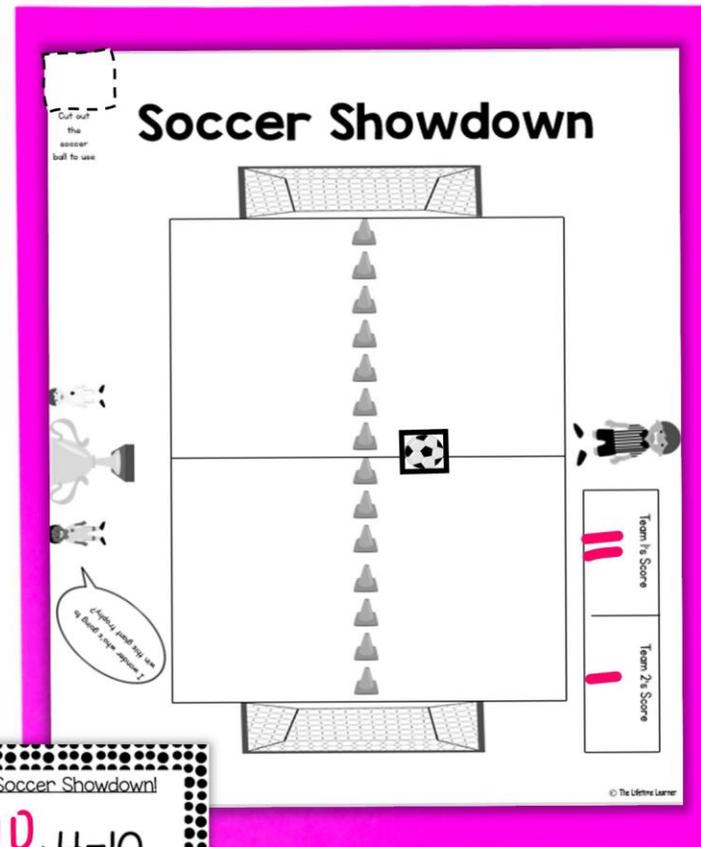
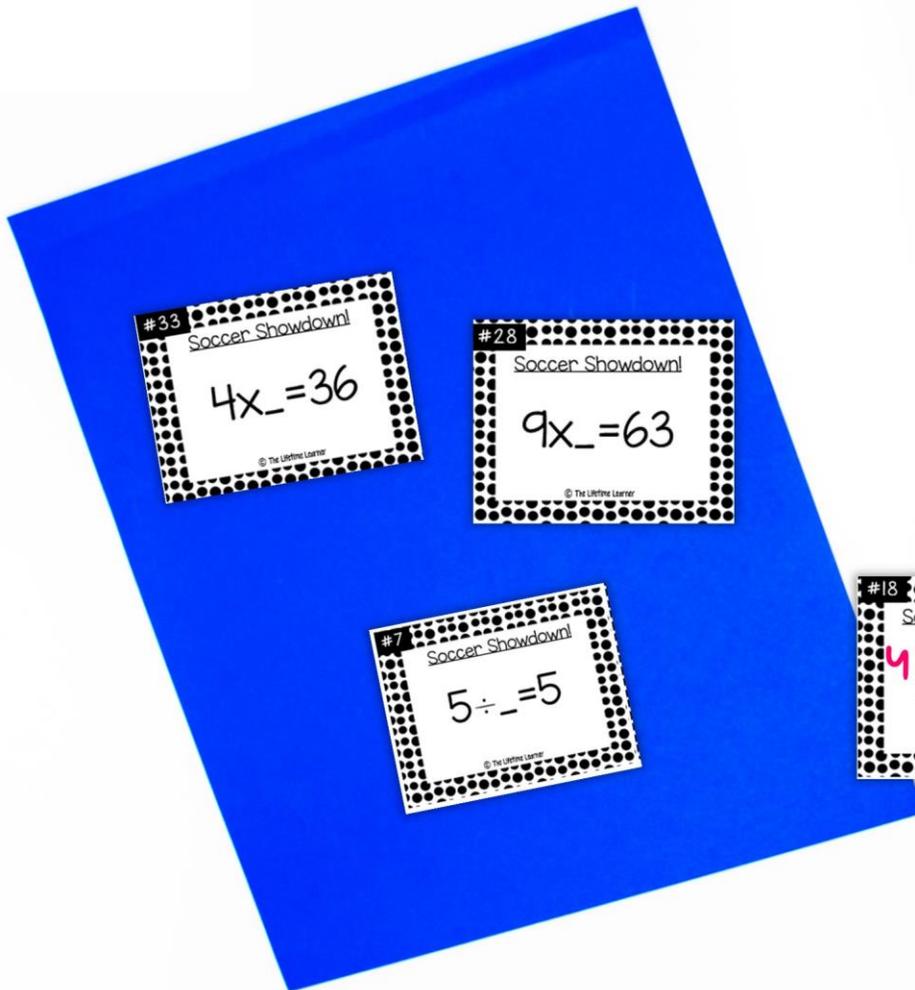
 $\underline{24} \div 8 = 3$
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Students solve each question. They put a smile or a frown on each based on if it's correct.



GAME #1

Place a soccer ball in the middle of your field. Move the ball forward or backward depending on if the question is answered correctly.



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.



Chance Card!

To
Chance Card!

Chance Card!

Take 1 piece
from the
middle.

Take a piece
from the
middle
and give it to
another
player.

The Lifetime Learner

$$6 \times _ = 42$$

$$8 \times \underline{4} = 32$$

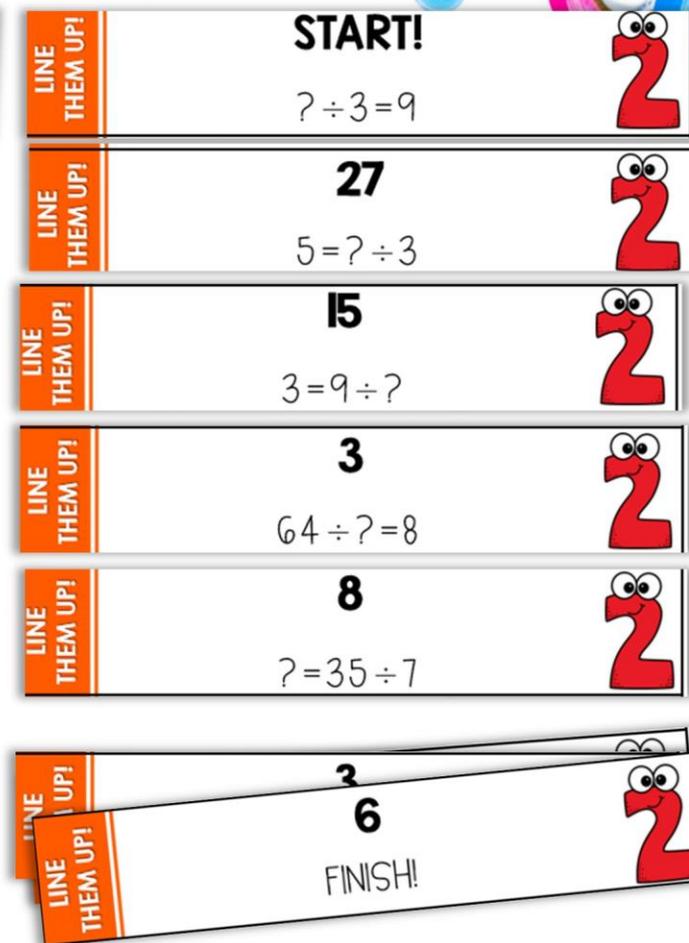
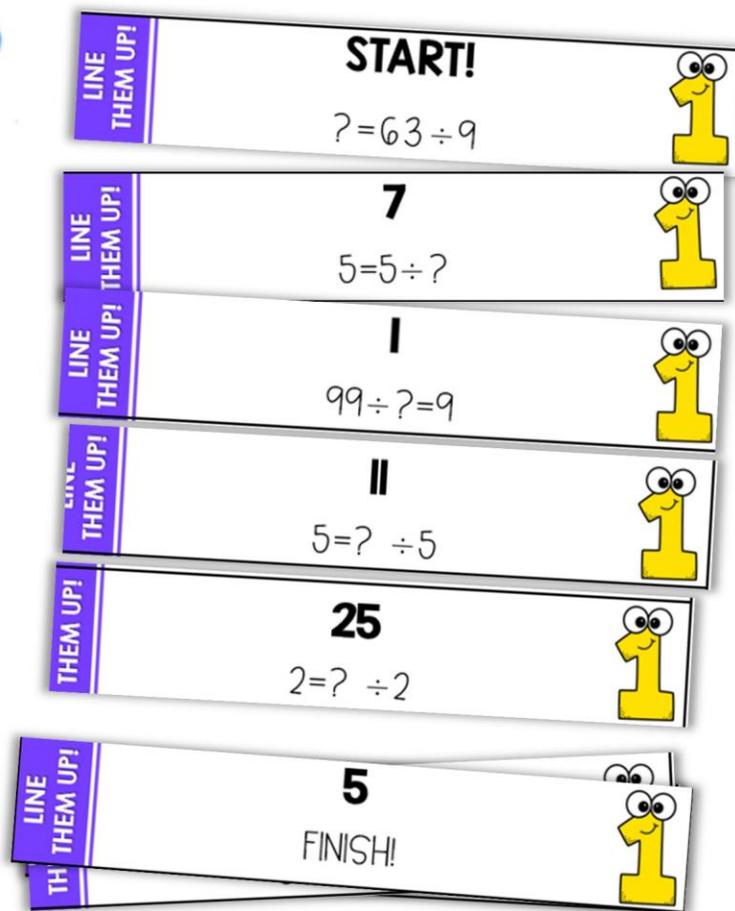
$$63 \div _ = 9$$

#3

#2

13

GAME #3



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

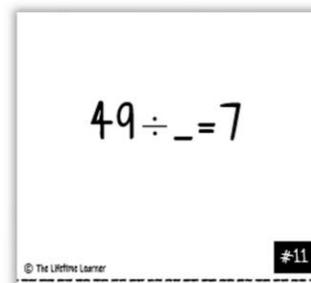


Click the bucket to see this game in action.

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.

- 2 versions included
- fact families
 - missing factors



BUY THE BUNDLE AND SAVE BIG!

3RD GRADE MATH BUNDLE

Name: Lindsay **The Beach**
Write the number of the matching word problem on each bucket to show which sandcastle goes with each word problem.

5 A #6 3 B #5 9 C #2
12 D #4 10 E #1 6 F #3

- There are 2 sharks. Each one has 5 teeth. How many teeth do the teeth have combined? $2 \times 5 = 10$
- There are 54 fish in the water. They are split between 6 small pools equally. How many fish are in each pool of water? $54 \div 6 = 9$
- There are 36 umbrellas for sale on the beach. 6 umbrellas are sold each hour. How many hours did it take to sell all of the umbrellas? $36 \div 6 = 6$
- There are 3 fences facing the beach. There are four seagulls sitting on each one. How many seagulls are there total? $3 \times 4 = 12$
- There are 12 surfers out in the water. They are chatting in groups of 4. How many groups are chatting? $12 \div 4 = 3$
- There are 50 seals out in the ocean. They are sitting in groups of 10. How many groups of seals are there? $50 \div 10 = 5$

My Castle

To win, you must have 10 items in your castle.

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7000+ PAGES

GAMES **ACTIVITIES** **WORKSHEETS**

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ROOM TRANSFORMATION

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ROOM TRANSFORMATION

3RD GRADE WORKSHEET BUNDLE

- ✓ ALL STANDARDS
- ✓ PRINT & GO
- ✓ 156 WORKSHEETS

GRAB IT!

29 MATH GAMES

3RD GRADE

GRAB IT!									
50	9	0	4	50	9	0	4	50	
GRAB IT!									
7	24	15	6	7	24	15	48	7	
GRAB IT!									
81	3	18	48	81	3	18	6	81	

GRAB IT!

$_ \div 3 = 2$

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3RD GRADE BUNDLE TASK CARDS

- ✓ DIGITAL
- ✓ PRINTABLE
- ✓ 166 GAMES

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