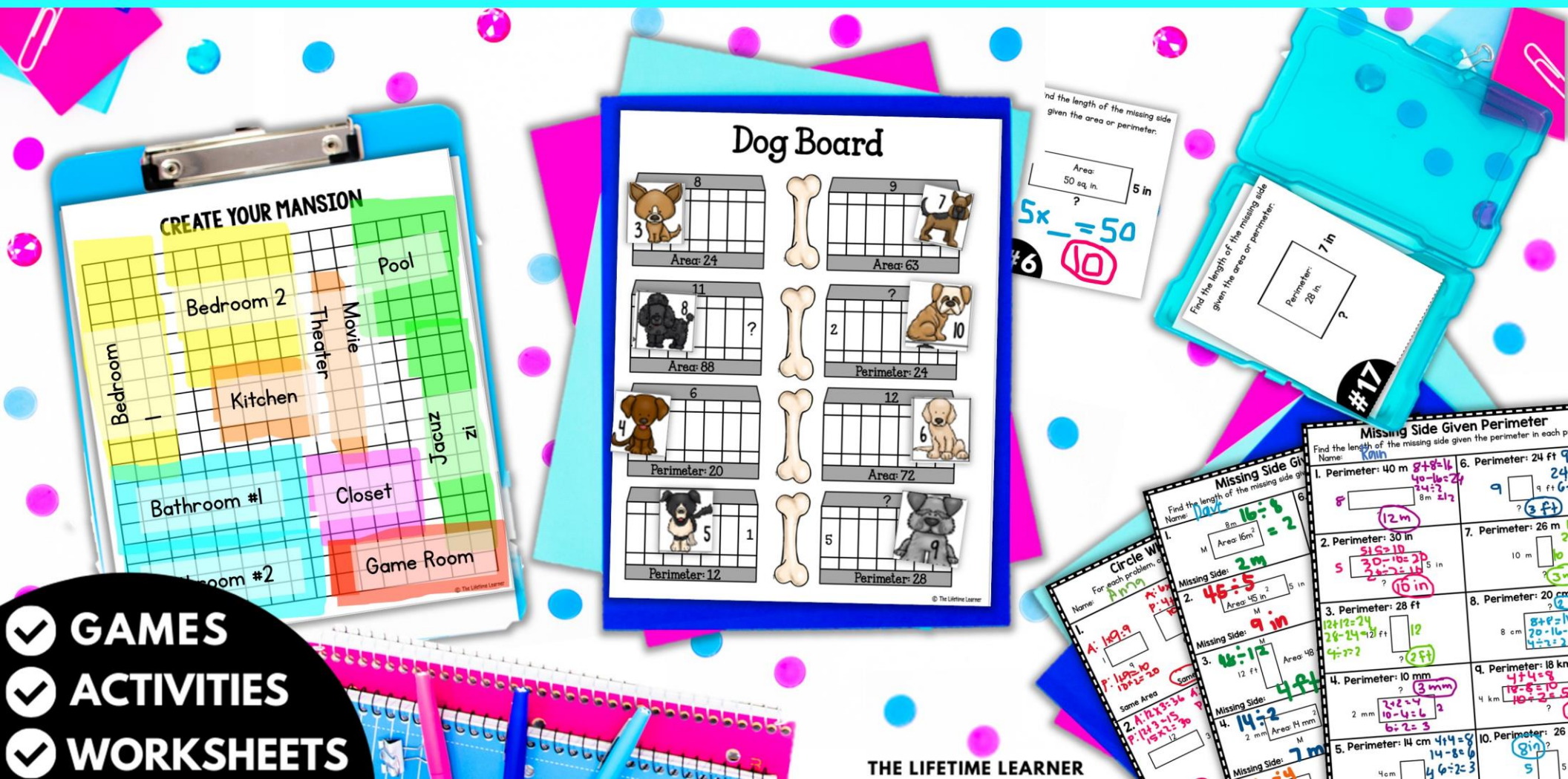


# AREA & PERIMETER

## MISSING SIDES

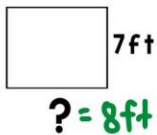


- ✓ GAMES
- ✓ ACTIVITIES
- ✓ WORKSHEETS

# 2 MINI LESSONS

## Let's Learn: Area & Perimeter Missing Sides

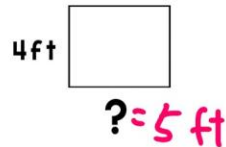
### Area is Given



Area: 56 square feet

$$56 \div 7 = 8$$

$$7 \times 8 = 56$$

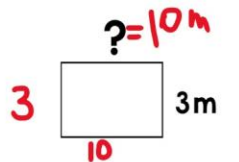


Area: 20 square feet

$$20 \div 4 = 5$$

$$4 \times 5 = 20$$

### Perimeter is Given

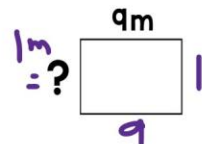


Perimeter: 26 meters

$$3 + 3 = 6$$

$$26 - 6 = 20$$

$$20 \div 2 = 10$$



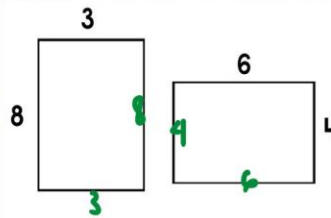
Perimeter: 20 meters

$$9 + 9 = 18$$

$$20 - 18 = 2$$

$$2 \div 2 = 1$$

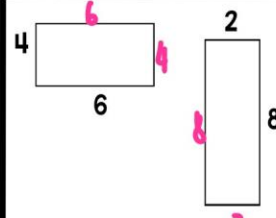
## Let's Learn: Comparing Area & Perimeter



A:  $3 \times 8 = 24$  A:  $6 \times 4 = 24$   
P:  $3 + 3 + 8 + 8 = 22$  P:  $4 + 4 + 6 + 6 = 20$

Same Area

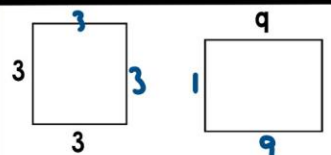
Same Perimeter



A:  $4 \times 6 = 24$  A:  $2 \times 8 = 16$   
P:  $4 + 4 + 6 + 6 = 20$  P:  $2 + 2 + 8 + 8 = 20$

Same Area

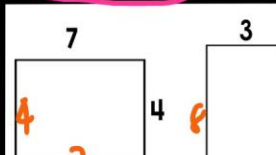
Same Perimeter



A:  $3 \times 3 = 9$  A:  $9 \times 1 = 9$   
P:  $3 + 3 + 3 + 3 = 12$  P:  $9 + 9 + 1 + 1 = 20$

Same Area

Same Perimeter



A:  $7 \times 4 = 28$  A:  $3 \times 8 = 24$   
P:  $7 + 7 + 4 + 4 = 22$  P:  $3 + 3 + 8 + 8 = 22$

Same Area

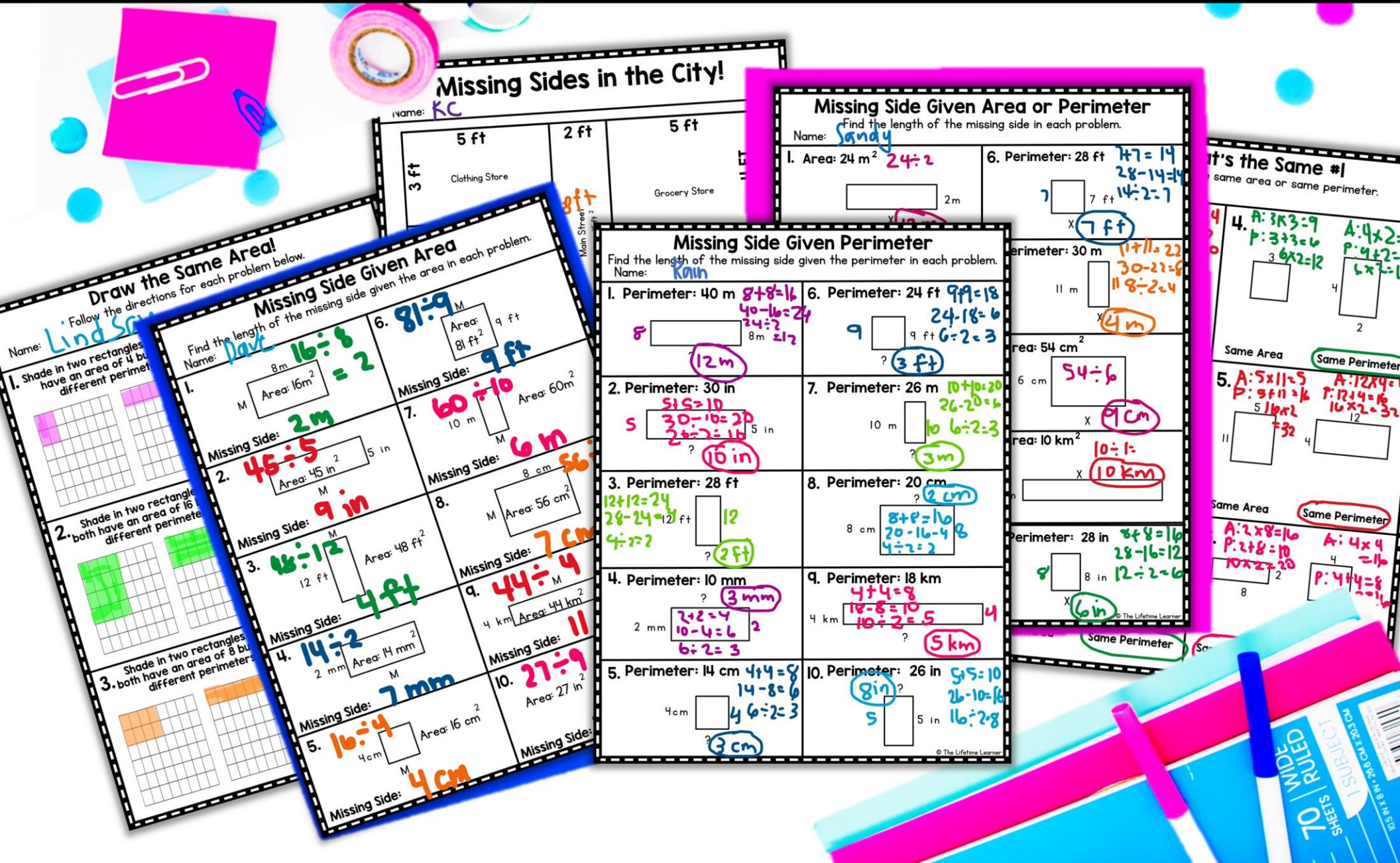
Same Perimeter

## 2 Mini-Lessons:

- A & P Missing Sides
- Comparing A & P



# 10 WORKSHEETS





# CREATE YOUR OWN MANSION



## 3 Versions:

- Easy Numbers
- Hard Numbers
- Creative Version

Students use their knowledge of area and perimeter to create their own mansion.

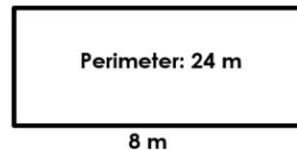
# ERROR ANALYSIS

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.

Find the length of the missing side given the area or perimeter.



?

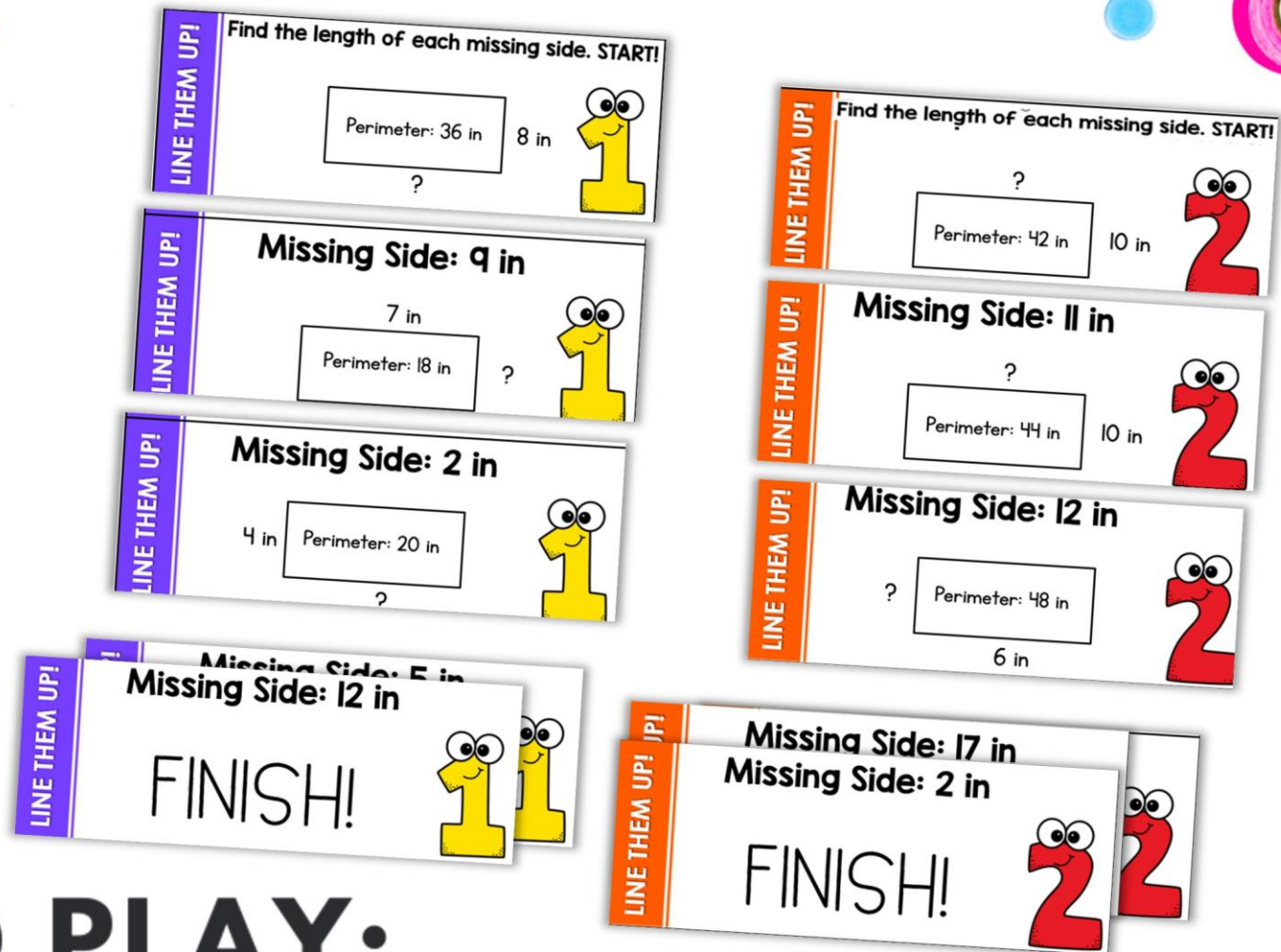
The student says:  
The answer is 3 because  $8 \times 3 = 24$ .

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

The student accidentally found the missing side if given the area. The answer when given the perimeter is  $8+8=16$ . Then  $24-16=8$ . Then,  $8/2=4$ . © The Lifetime Learner



# GAME #1



## HOW TO PLAY:

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



# 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.



Find the length of the missing side given the area or perimeter.

Area:  
28 sq. in.  
7 in

#8

© The Lifetime Learner

Find the length of the missing side given the area or perimeter.

Find the length of the missing side given the area or perimeter.

Area:  
50 sq. in.  
5 in

#6

$$5 \times \underline{\quad} = 50$$

10

Find the length of the missing side given the area or perimeter.

Perimeter:  
28 in.  
7 in

#17

Chance Card!

To

Chance Card!

Chance Card!

Take 1 piece from the middle.

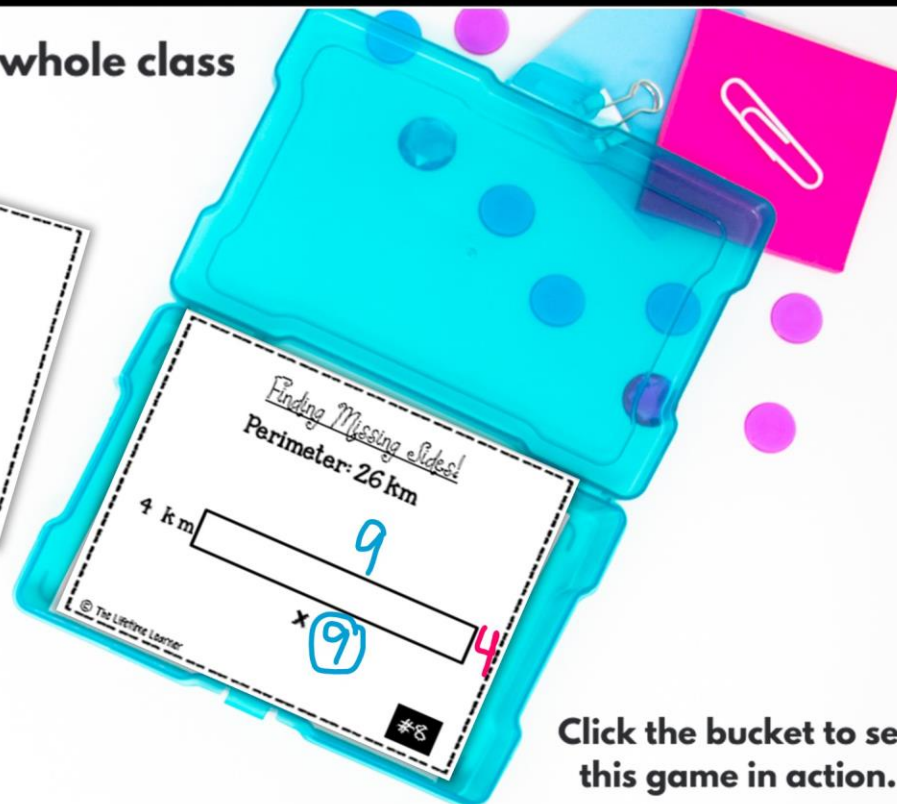
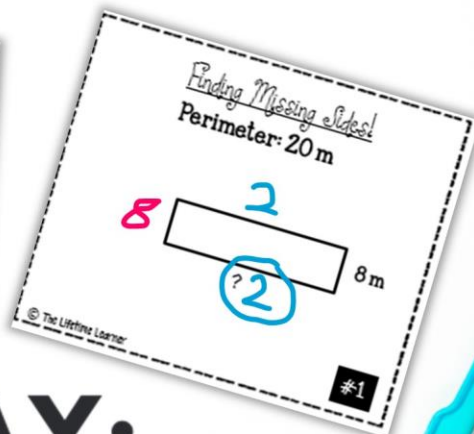
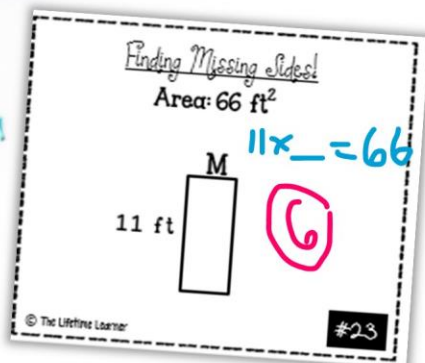
Take a piece from the middle and give it to another player.

© The Lifetime Learner



# GAME #3

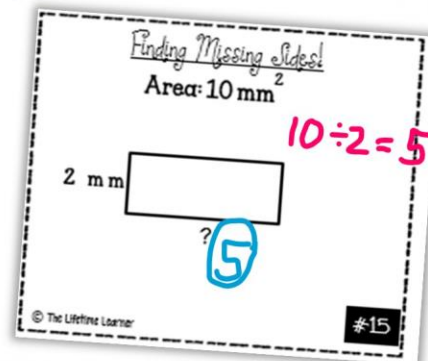
the perfect game to play with the whole class



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.









# GAME #4

### Cat Board

6 ? Perimeter: 16		9 ? Area: 72
? 6 Area: 42		7 ? Perimeter: 22
12 ? Perimeter: 26		? 3 Area: 18
? ? Area: 132		? 6 Perimeter: 30

© The Lifetime Learner

### Dog Board

8 ? Area: 24		9 ? Area: 63
11 ? Area: 88		? 2 Perimeter: 24
6 ? Perimeter: 20		12 ? Area: 72
? ? Perimeter: 12		? 5 Perimeter: 28

© The Lifetime Learner

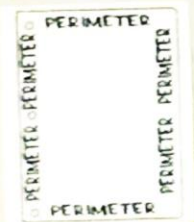
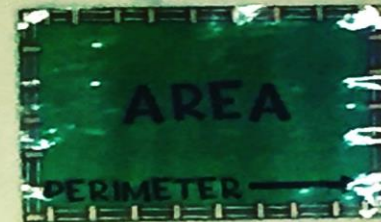
Students find the length of the missing side given the area or perimeter and match each pet to the correct cage. The first one done wins! Then, switch boards and play again.



# 21 POSTERS

Froggy

Put these posters up on the walls for students to reference during your unit.





# 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.

Sandcastle	Letter	Number
A	#6	
B	#5	
C	#2	
D	#4	
E	#1	
F	#3	

- There are 2 sharks. Each one has 5 teeth. How many teeth do the sharks 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.

© The Lifetime Learner

7000+  
PAGES

GAMES

ACTIVITIES

WORKSHEETS

# YOU MAY ALSO LIKE:

**AFRICAN safari** area & perimeter  
3.MD.5-8



**3rd GRADE**  
By: The Lifetime Learner

EDITABLE  
ROOM TRANSFORMATION

**REALTOR day** area & perimeter  
3.MD.5-8



**3rd GRADE**  
By: The Lifetime Learner

EDITABLE  
ROOM TRANSFORMATION

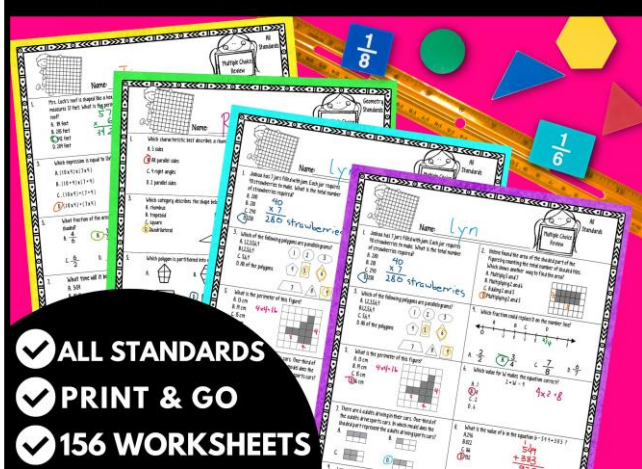
**SURGERY day** rectilinear area  
3.MD.7



**3rd GRADE**  
By: The Lifetime Learner

EDITABLE  
ROOM TRANSFORMATION

**3RD GRADE WORKSHEET BUNDLE**



✓ ALL STANDARDS  
✓ PRINT & GO  
✓ 156 WORKSHEETS

**GRAB IT! 29 MATH GAMES**

**3RD GRADE**



GRAB IT!  
 $-3=2$

THE LIFETIME LEARNER

**3RD GRADE BUNDLE TASK CARDS**



✓ DIGITAL  
✓ PRINTABLE  
✓ 166 GAMES

© The Lifetime Learner