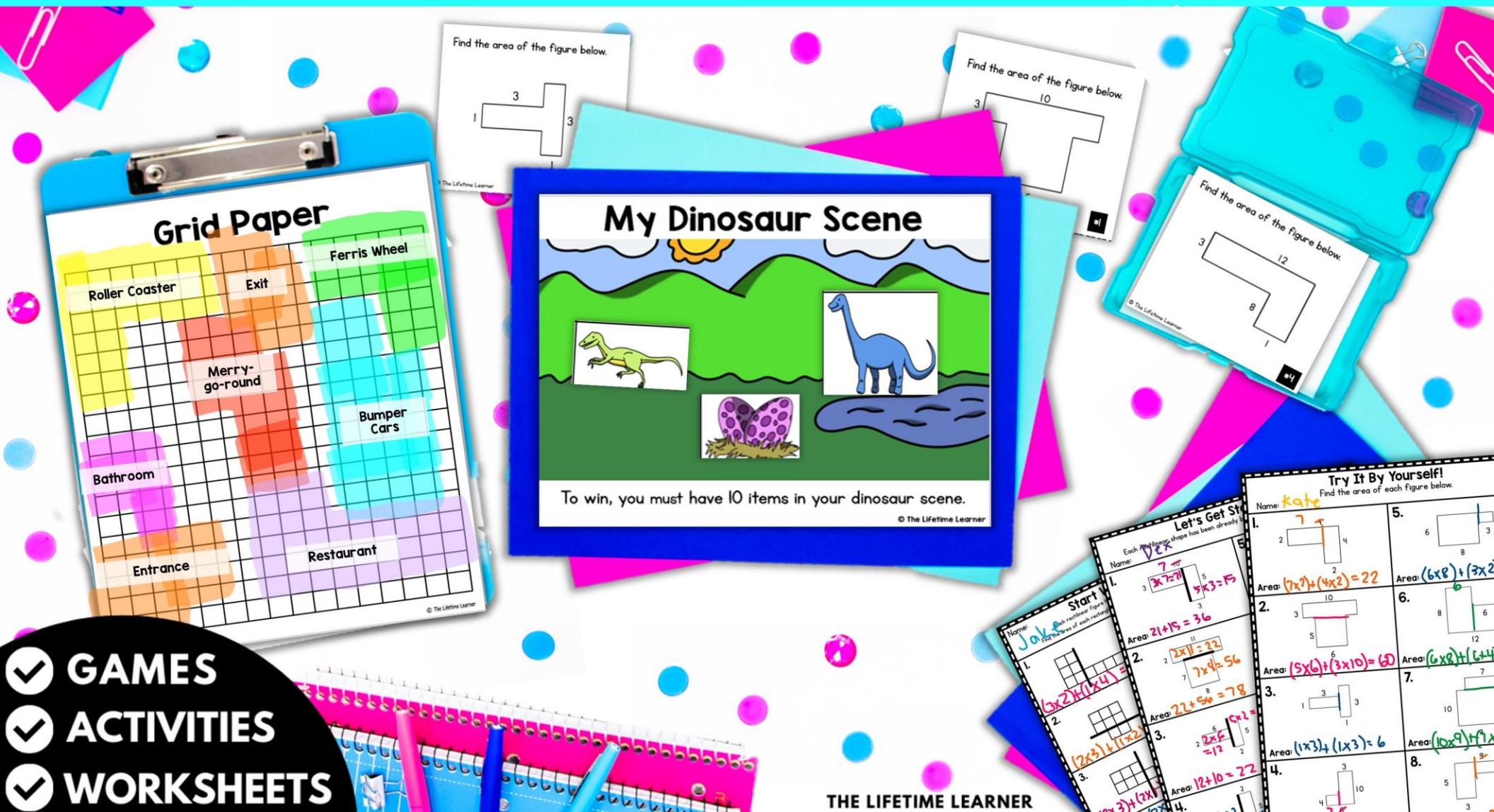


# RECTILINEAR AREA

## AREA OF COMPOSITE FIGURES



- GAMES
- ACTIVITIES
- WORKSHEETS

# MINI LESSON

Let's Learn: Rectilinear Area

Area:  $5$

$2 \times 2$

$4 + 1$

Area:  $56$

$2m \quad 7m$

$4m$

$4m$

$8 + 28$

Area:  $86$

$72 + 14 = 86$

$8 \times 9 = 72$

$7$

$7 \times 2 = 14$

$2$

$10 \times 8$

q

$8 \times 4 = 32$

$5 \times 12 = 60$

$60 + 32 = 92$

12

4

5

4

5

4

4

5

5

12

How to Solve:

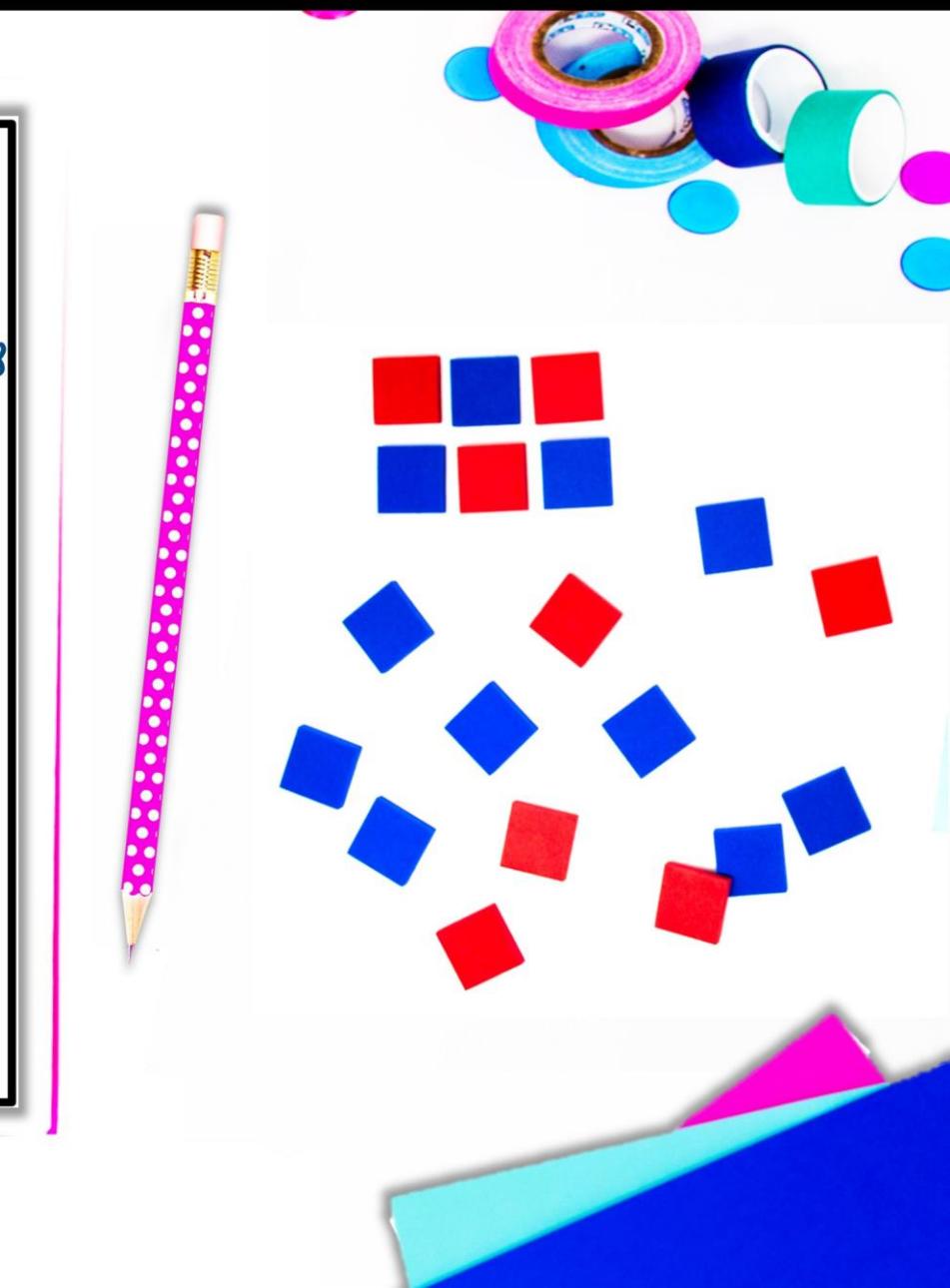
Step 1: Chop up the figure into smaller rectangles!

Step 2: Find the missing sides.

Step 3: Find the area of each small rectangle.

Step 4: Add up the area of all the rectangles.

Definition: Breaking up a large figure into smaller rectangles to find the area of the entire figure



# 10 WORKSHEETS

**Solve and Match**

Let's Get Started!

Find the area of each rectilinear shape. Each rectilinear shape has been already been cut for you. Find the area of each shape.

1. Name: **Dex** Area:  $2+15=36$

2. Name: **Corie** Area:  $22+56=78$

3. Name: **Mike** Area:  $12+10=22$

4. Name: **Sam** Area:  $24+30=54$

5. Name: **Mike** Area:  $96+11=107$

6. Name: **Sam** Area:  $4+10=14$

7. Name: **Mike** Area:  $12+10=22$

**Start With the Basics!**

Name: **Jake**

Each rectilinear figure has been broken into smaller rectangles for you. Find the area of each rectangle. Then, add them together to find the rectilinear area.

1.  $(3 \times 2) + (1 \times 4) = 10$

2.  $(2 \times 3) + (1 \times 2) = 8$

3.  $(2 \times 3) + (2 \times 1) = 8$

4.  $(1 \times 3) + (2 \times 7) = 17$

5.  $(1 \times 2) + (1 \times 1) = 3$

6.  $(3 \times 2) + (2 \times 7) = 20$

7.  $(1 \times 3) + (4 \times 5) = 23$

8.  $(1 \times 4) + (1 \times 10) = 14$

9.  $(1 \times 1) + (2 \times 4) = 9$

10.  $(2 \times 1) + (2 \times 2) = 6$

**Try It By Yourself!**

Find the area of each figure below.

5.  $(6 \times 8) + (3 \times 2) = 54$

6.  $(6 \times 8) + (5 \times 4) = 72$

7.  $(10 \times 9) + (1 \times 2) = 104$

8.  $(5 \times 4) + (4 \times 4) = 32$

**Solve Me!**

Find the area of each rectilinear figure. Each rectilinear figure has been broken into smaller rectangles for you. Find the area of each rectangle. Then, add them together to find the rectilinear area.

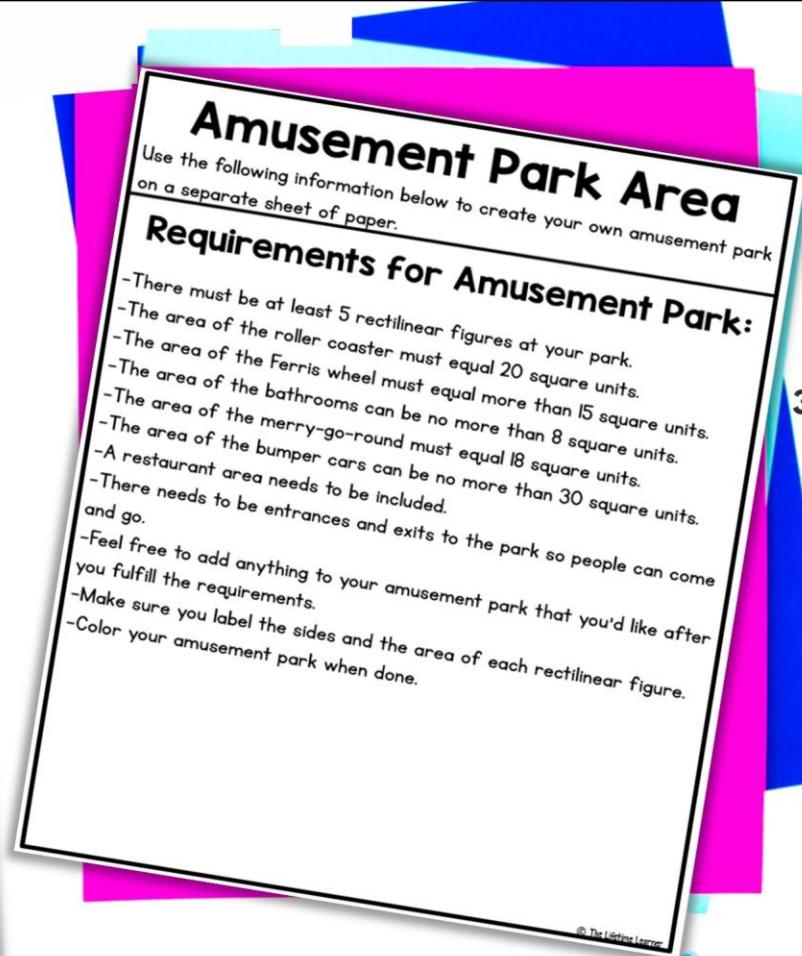
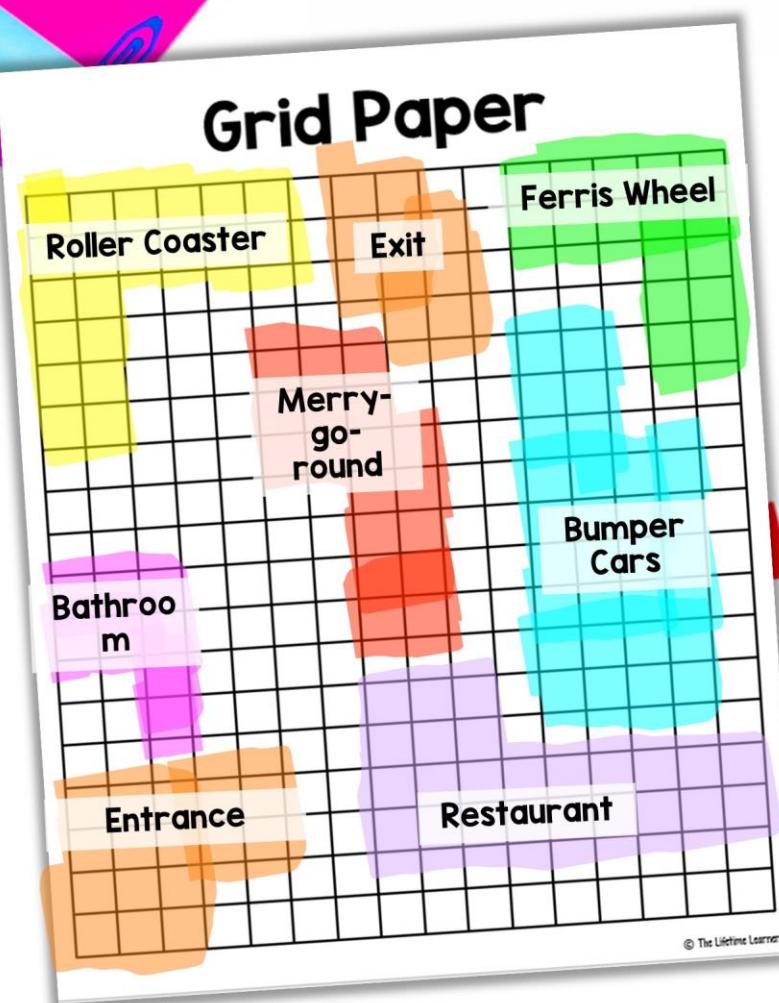
5.  $(7 \times 1) + (2 \times 1) = 9$

6.  $(5 \times 3) + (5 \times 3) = 30$

7.  $(10 \times 3) + (4 \times 4) = 32$

WIDE RULED  
1 SUBJECT  
10 SHEETS  
10.5" x 8.5" x 20.3 cm

# CREATE YOUR OWN AMUSEMENT PARK



**3 Versions:**

- Easy Numbers
- Hard Numbers
- Creative Version

Students create their own amusement park with rectilinear figures. Three versions included.

# 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 area of the rectilinear figure.



$$\begin{array}{c} 2 \\ \times 4 \\ \hline 8 \end{array}$$

$$\begin{array}{c} 1 \\ \times 4 \\ \hline 4 \end{array}$$

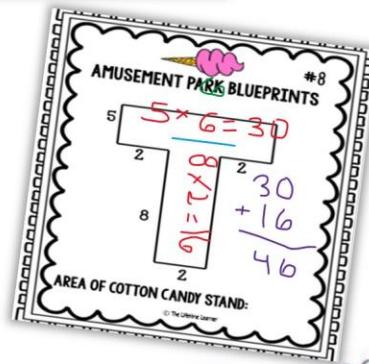
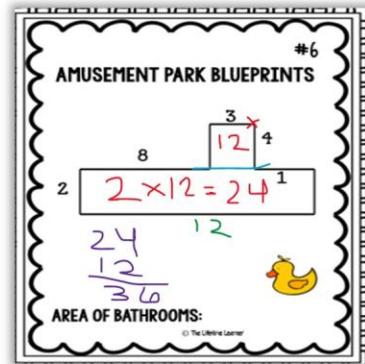
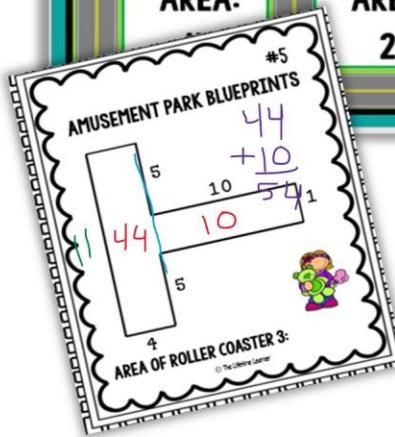
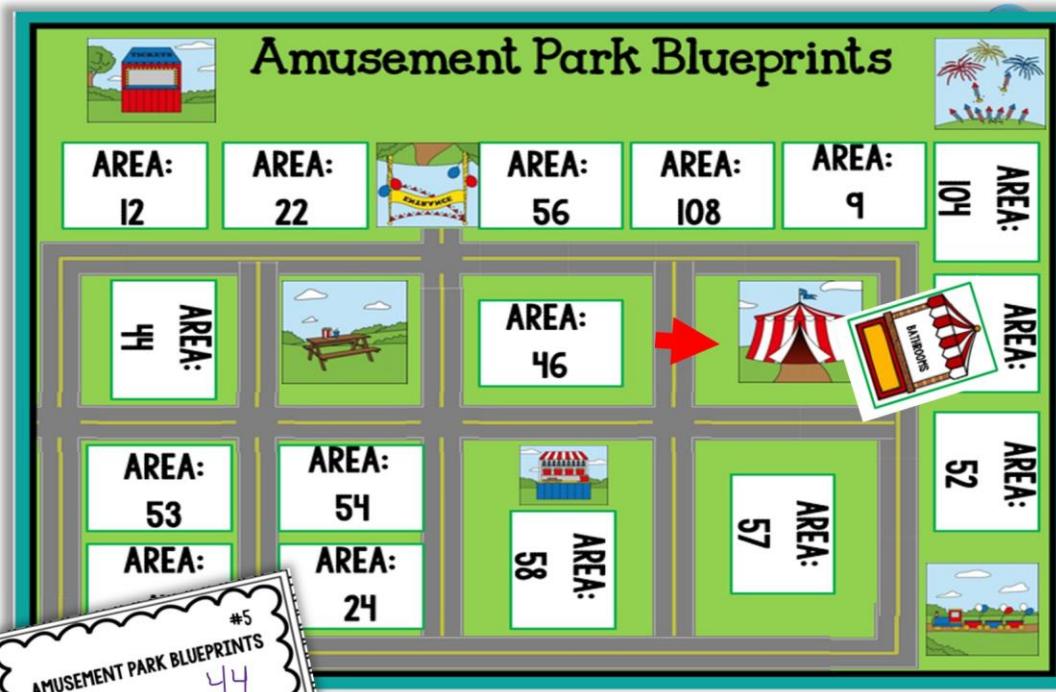
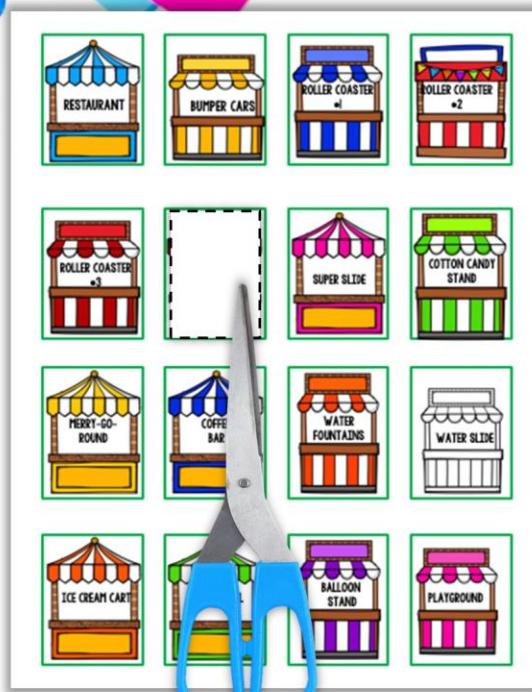
$$8 + 4 = 12$$

The student says:  
The answer is 14 because  $(1 \times 4) + (2 \times 5) = 14$ .

Explain if they are right or wrong. Put a check or X on their work.  
The student did not do the correct equations because when you chop the figure into 2 smaller rectangles, the side lengths change. The correct answer is 12.

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# GAME #1



## HOW TO PLAY:

Students work together to solve each task card. When they find the answer, they'll know where to place each sign.

# GAME #2

FOR 2-4 PLAYERS



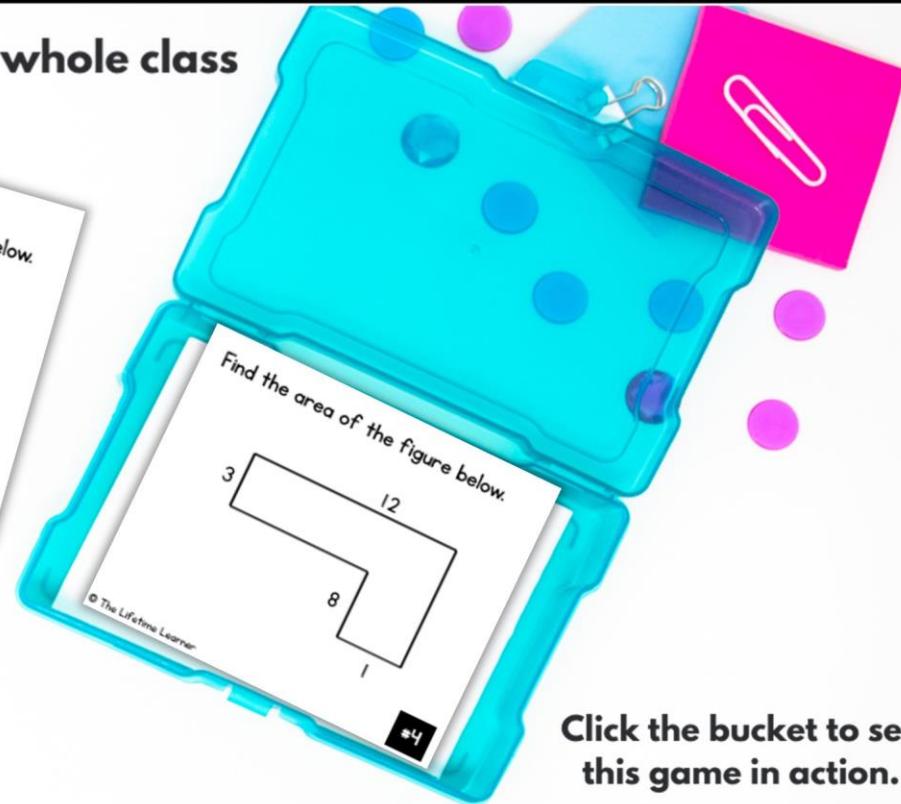
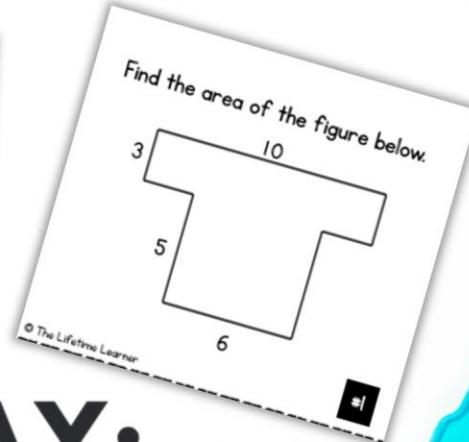
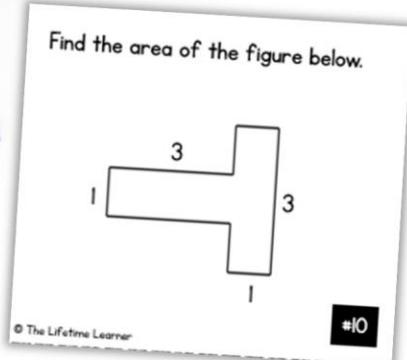
## HOW TO PLAY:

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.

A collage of game components. In the center is a game mat titled "My Dinosaur Scene" with a green landscape, blue water, and a sun. It includes a small text box: "To win, you must have 10 items in your dinosaur scene." Below the mat are four question cards, each asking "Find the area of the shape." and showing a different L-shaped polygon with side lengths labeled. The cards are numbered #1, #2, #3, and #4. To the right are four chance cards with various instructions: "Chance Card! Take a piece from the middle.", "Chance Card! Give it to another player.", "Chance Card! Take a piece from the middle.", and "Chance Card! Give it to another player.". The chance cards are from "The Lifetime Learner". The entire collage is set against a white background with colorful paperclips and a spiral notebook at the bottom left.

# GAME #3

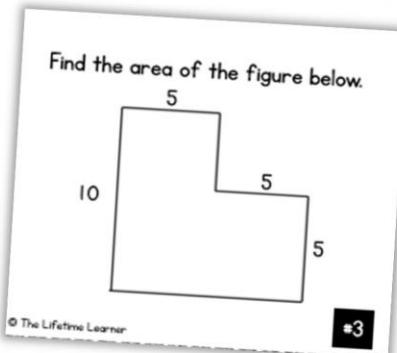
the perfect game to play with the whole class



Click the bucket to see this game in action.

## HOW TO PLAY:

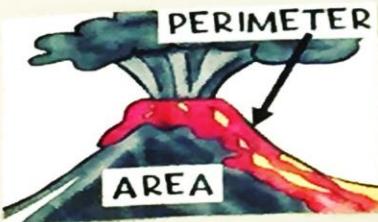
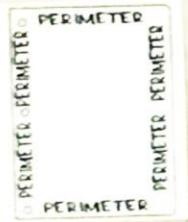
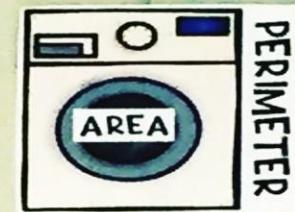
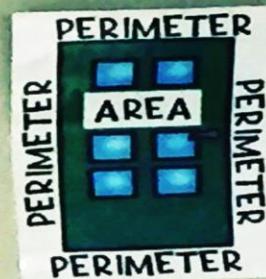
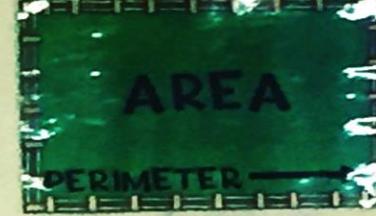
1. Students answer task cards.
2. If they get it right, they drop it in the bucket.
3. Students play for a set amount of time.
4. At the end of gameplay, the teacher draws task cards out of the bucket.
5. Any student whose task card gets pulled out gets a small prize.



# 21 POSTERS

Froggy

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



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## 3RD GRADE MATH BUNDLE

**7000+ PAGES**

**GAMES** **ACTIVITIES** **WORKSHEETS**

**My Castle**

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

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**The Beach**

Name: **Lindsay**

Write the number of the matching word problem on each bucket to show which sandcastle goes with each word problem.

<b>A</b>	<b>#5</b>	<b>B</b>	<b>#5</b>	<b>C</b>	<b>#2</b>
<b>D</b>	<b>#4</b>	<b>E</b>	<b>#1</b>	<b>F</b>	<b>#3</b>

1. There are 2 sharks. Each one has 5 teeth. How many teeth do the teeth have combined?  $2 \times 5 = 10$

2. There are 54 fish in the water. They are split between 6 small pools equally. How many fish are in each pool of water?  $54 \div 6 = 9$

3. 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?  $36 \div 6 = 6$

4. There are 3 fences facing the beach. There are four seagulls sitting on each one. How many seagulls are there total?  $3 \times 4 = 12$

5. There are 12 surfers out in the water. They are chatting in groups of 4. How many groups are chatting?  $12 \div 4 = 3$

6. There are 50 seals out in the ocean. They are sitting in groups of 10. How many groups of seals are there?  $50 \div 10 = 5$

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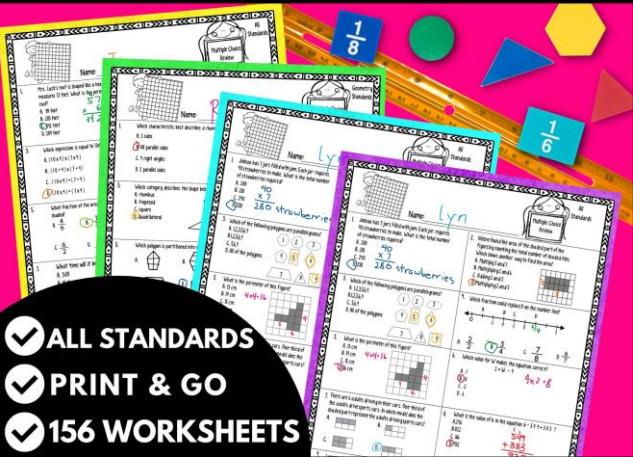
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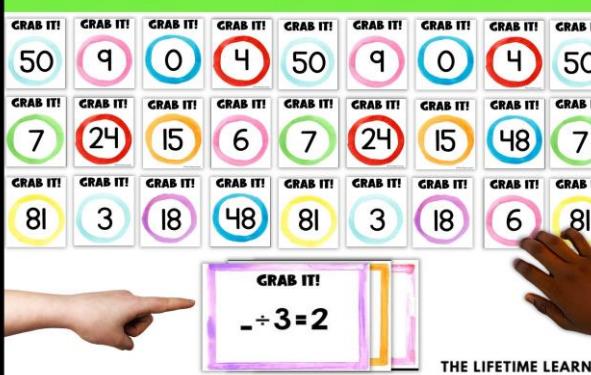
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