

AREA & PERIMETER

WORD PROBLEMS

Let's Learn: Area & Perimeter Word Problems

Finding Area
Maya is trying to put up a fence around her yard. She knows the length of the yard is 10 ft and the width is 8 ft. How much fence will she need to buy?
width: 8 ft, length: 10 ft
 $8 \times 10 = 80$
80 ft

Finding Perimeter
Maya is trying to plant new grass in her yard. If she knows the length of the yard is 10 ft and the width is 8 ft, how much grass does she need to buy?
 $8 + 10 + 8 + 10 = 36$
36 ft

Finding Missing Side Given Area
Maya just had a pool put in her backyard. If the area of the pool is 35 square feet and she knows it is 7 feet long, what is the width of her new pool?
7 ft, 35 sq ft
 $7 \times ? = 35$
 $7 \times 5 = 35$
5 ft

Finding Missing Side Given Perimeter
Maya's new pool has a perimeter of 24 ft. If she is going to hang lights on two sides of the pool. If she knows the width is 7 ft, what is the length?
7 ft, 24 ft
 $7 + 7 = 14$
 $24 - 14 = 10$
 $10 \div 2 = 5$
5 ft

How to Solve:

SPIN TO SEE WHICH QUESTION YOU ANSWER!

SPIN USING PAPER CLIP

FIND THE AREA

SAME AREA OR SAME PERIMETER

FIND MISSING SIDE

FIND THE PERIMETER

Jeremiah's book is 8 inches long and 5 inches wide. What is the area of his book?
 $8 \times 5 = 40$

A book is 6 inches wide and 9 inches long. What is the perimeter of the front of the book?
 $P = 6 + 9 + 6 + 9 = 30$
P: 30

Describing Area of Missing

Name: Ara

1. The perimeter of a fence is 28 ft. If one side measures 6 ft, what is the length of the missing side?
 $28 - 2 = 26$
 $26 \div 2 = 13$
13 ft

2. Miss colors an entire envelope red in honor of Valentine's Day and puts a note inside for her Valentine. Did she color the entire area or perimeter of the card?
area

3. John decides to put a moat all the sides of his castle. Will he be able to enter without the same area or perimeter?
area

Same Area or Same Perimeter?

Name: Harry

1. A picture book in the library measures 4 inches by 7 inches. A chapter book in the library measures 12 inches by 3 inches. Do the books have the same area or the same perimeter?
A: 36 in², 36 in²
P: 26 in, 30 in
Same area

2. Two windows are in the house. The first window is 3 ft long on all sides. The second window measures 3 ft long by 3 ft wide. Do they have the same area or the same perimeter?
A: 9 ft², 9 ft²
P: 12 ft, 12 ft
Same area and same perimeter

3. Jackson has two notebooks. The first notebook is 5 inches in length and 8 inches in width. The second notebook is 10 inches in width and 6 inches wide. Do they have the same area or the same perimeter?
A: 55 in², 60 in²
P: 22 in, 22 in
Same perimeter

4. Mrs. Wilson has two pieces of she needs to use. One measures 10 feet long and 5 feet wide. The other square and measures 6 cm on each side. Do the pieces of paper have the same area or the same perimeter?
A: 32 cm², 30 cm²
P: 24 cm, 22 cm
Same perimeter

5. The inside pool of the hotel is 10 feet long and 7 yards wide. The outside pool is 10 yards long and 3 yards wide. Do the pools have the same area or the same perimeter?
A: 42 yd², 30 yd²
P: 26 yd, 22 yd
Same perimeter

6. My garden at school is 20 feet long and 5 feet wide. My garden at home is 10 feet long and 5 feet wide. Do the gardens have the same area or the same perimeter?
A: 20 ft², 20 ft²
P: 20 ft, 20 ft
Same area and same perimeter

- ✓ GAMES
- ✓ ACTIVITIES
- ✓ WORKSHEETS

MINI LESSON

Let's Learn: Area & Perimeter Word Problems

Finding Area

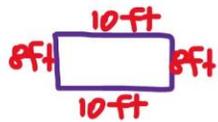
Maya is trying to put up a fence around her yard. She knows the length of the yard is 10ft and the width is 8ft. How much fence will she need to buy?

width: $8 \times 10 = 80$
8ft sq. ft.
length: 10ft

Finding Perimeter

Maya is trying to plant new grass in her yard. If she knows the length of the yard is 10 ft and the width is 8ft, how much grass does she need to buy?

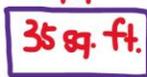
$8 + 8 + 10 + 10 = 36 \text{ ft.}$



Finding Missing Side Given Area

Maya just had a pool put in her backyard. If the area of the pool is 35 square feet, and she knows it is 7 feet long, what is the width of her new pool?

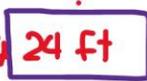
$7 \text{ ft} \times 5 = 35 \text{ sq. ft.}$



Finding Missing Side Given Perimeter

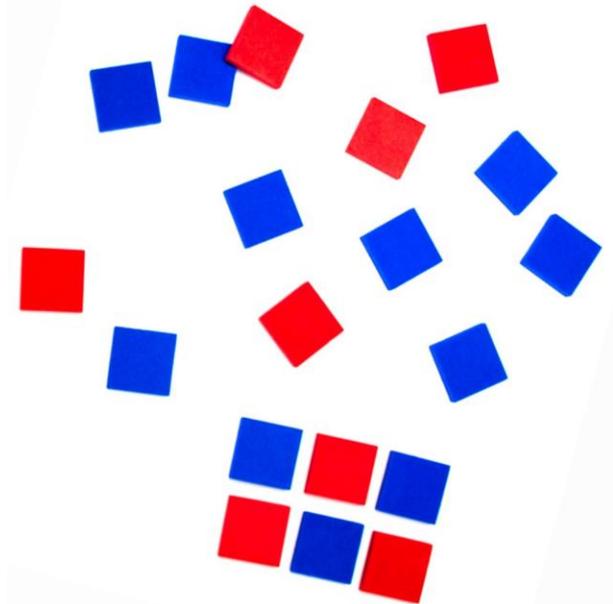
Maya's new pool has a perimeter of 24 ft. She is going to hang lights on two sides of the pool. If she knows the width is 7ft, what is the length?

$7 + 7 = 14$
 $24 - 14 = 10$
 $10 \div 2 = 5 \text{ ft.}$

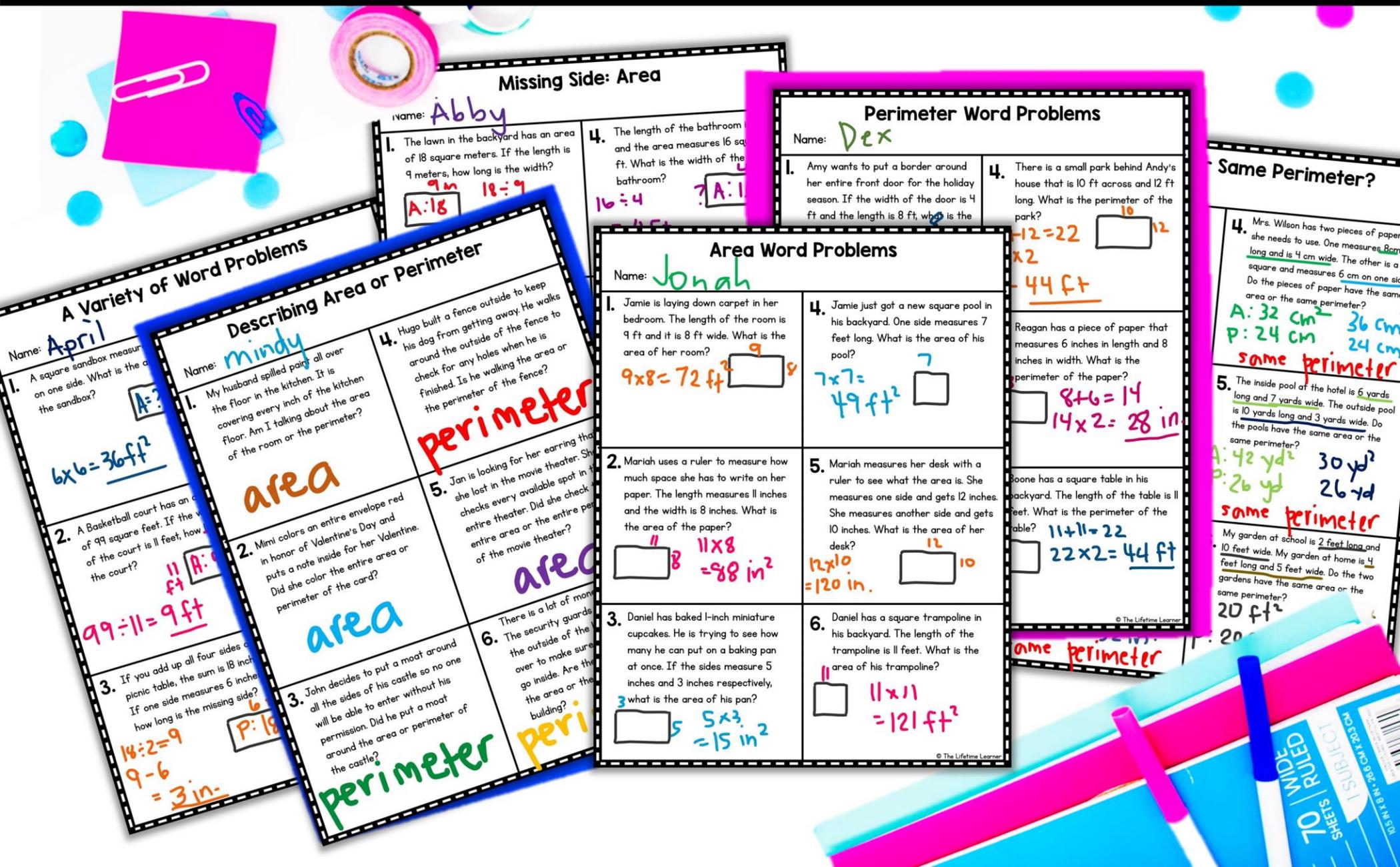


How to Solve:

- Step 1: Read the problem.
- Step 2: Circle the numbers you see.
- Step 3: Look for labels that give away what you're trying to find.
- Step 4: Draw a picture to help you solve.
- Step 5: Show your work!



16 WORKSHEETS



A Variety of Word Problems

Name: **April**

1. A square sandbox measures 6 ft on one side. What is the area of the sandbox?
 $6 \times 6 = 36 \text{ ft}^2$
A: 36

2. A Basketball court has an area of 99 square feet. If the width of the court is 11 feet, how long is the court?
 $99 \div 11 = 9 \text{ ft}$
A: 9

3. If you add up all four sides of a picnic table, the sum is 18 inches. If one side measures 6 inches, how long is the missing side?
 $18 \div 2 = 9$
 $9 - 6 = 3 \text{ in.}$
P: 18

Describing Area or Perimeter

Name: **mindy**

1. My husband spilled paint all over the floor in the kitchen. It is covering every inch of the kitchen floor. Am I talking about the area or the perimeter of the room?
area

2. Mimi colors an entire envelope red in honor of Valentine's Day and puts a note inside for her Valentine. Did she color the entire area or perimeter of the card?
area

3. John decides to put a moat around all the sides of his castle so no one will be able to enter without his permission. Did he put a moat around the area or perimeter of the castle?
perimeter

4. Hugo built a fence outside to keep his dog from getting away. He walks around the outside of the fence to check for any holes when he is finished. Is he walking the area or the perimeter of the fence?
perimeter

5. Jan is looking for her earring that she lost in the movie theater. She checks every available spot in the entire theater. Did she check the entire area or the entire perimeter of the movie theater?
area

6. There is a lot of money outside of the security guards over to make sure no one goes inside. Are they measuring the area or the perimeter of the building?
perimeter

Missing Side: Area

Name: **Abby**

1. The lawn in the backyard has an area of 18 square meters. If the length is 9 meters, how long is the width?
 $9 \text{ m} \quad 18 \div 9$
A: 18

4. The length of the bathroom is 16 ft and the area measures 16 square feet. What is the width of the bathroom?
 $16 \div 4 = 4 \text{ ft}$
A: 4

Area Word Problems

Name: **Jonah**

1. Jamie is laying down carpet in her bedroom. The length of the room is 9 ft and it is 8 ft wide. What is the area of her room?
 $9 \times 8 = 72 \text{ ft}^2$
72

2. Mariah uses a ruler to measure how much space she has to write on her paper. The length measures 11 inches and the width is 8 inches. What is the area of the paper?
 $11 \times 8 = 88 \text{ in}^2$
88

3. Daniel has baked 1-inch miniature cupcakes. He is trying to see how many he can put on a baking pan at once. If the sides measure 5 inches and 3 inches respectively, what is the area of his pan?
 $5 \times 3 = 15 \text{ in}^2$
15

4. Jamie just got a new square pool in his backyard. One side measures 7 feet long. What is the area of his pool?
 $7 \times 7 = 49 \text{ ft}^2$
49

5. Mariah measures her desk with a ruler to see what the area is. She measures one side and gets 12 inches. She measures another side and gets 10 inches. What is the area of her desk?
 $12 \times 10 = 120 \text{ in.}$
120

6. Daniel has a square trampoline in his backyard. The length of the trampoline is 11 feet. What is the area of his trampoline?
 $11 \times 11 = 121 \text{ ft}^2$
121

Perimeter Word Problems

Name: **Dex**

1. Amy wants to put a border around her entire front door for the holiday season. If the width of the door is 4 ft and the length is 8 ft, what is the perimeter?
 $4 + 8 + 4 + 8 = 24 \text{ ft}$
24

4. There is a small park behind Andy's house that is 10 ft across and 12 ft long. What is the perimeter of the park?
 $10 + 12 + 10 + 12 = 44 \text{ ft}$
44

Reagan has a piece of paper that measures 6 inches in length and 8 inches in width. What is the perimeter of the paper?
 $6 + 8 + 6 + 8 = 28 \text{ in}$
28

Boone has a square table in his backyard. The length of the table is 11 feet. What is the perimeter of the table?
 $11 + 11 + 11 + 11 = 44 \text{ ft}$
44

Same Perimeter?

4. Mrs. Wilson has two pieces of paper she needs to use. One measures 8 cm long and is 4 cm wide. The other is a square and measures 6 cm on one side. Do the pieces of paper have the same area or the same perimeter?
A: 32 cm² 36 cm²
P: 24 cm 24 cm
same perimeter

5. The inside pool at the hotel is 6 yards long and 7 yards wide. The outside pool is 10 yards long and 3 yards wide. Do the pools have the same area or the same perimeter?
A: 42 yd² 30 yd²
P: 26 yd 26 yd
same perimeter

My garden at school is 2 feet long and 10 feet wide. My garden at home is 4 feet long and 5 feet wide. Do the two gardens have the same area or the same perimeter?
20 ft² 20 ft²
same perimeter



BUG GAME

FIND THE AREA

A basketball court has a length of 3 feet and a width of 9 feet. What is the area of the court?

$3 \times 9 = 27$

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SPIN TO SEE WHICH QUESTION YOU ANSWER!

SPIN USING PAPER CLIP

FIND THE AREA

SAME AREA OR SAME PERIMETER

FIND THE MISSING SIDE

FIND THE PERIMETER

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Students spin to see which type of word problem they'll solve. Then, they earn points each time they solve correctly.

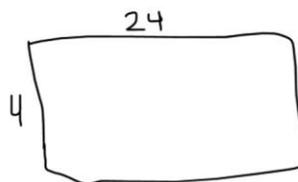
ERROR ANALYSIS

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.

The garage has an area of 24 sq. ft. If one side of the garage measures 4 feet, what is the length of the other side?



$$4 \times 24 = 96$$

The student says:
It says area so that means multiply.
 $4 \times 24 = 96$.

Explain if they are right or wrong. Put a check or X on their work.
The student found the area but they needed to find the length of the missing side. They should have done $24/4=6$.

GAME #1



LINE THEM UP!

START!

Sally's room is 9 feet long and 4 feet wide.
What is the area of her room?

1

LINE THEM UP!

36 sq. ft.

Molly's room is 3 feet long and 4 feet wide.
What is the area of her room?

1

LINE THEM UP!

12 sq. ft.

The area of Damion's room is 32 sq. ft. If one side measures 4 feet, what is the length of the other side?

1

LINE THEM UP!

8 ft.

The pool is 8 feet long and 9 feet wide.
What is the area of the room?

1

LINE THEM UP!

72 sq. ft.

The perimeter of the wall is 22 feet. If one side measures 2 feet, what is the width of the wall?

1

LINE THEM UP!

START!

The area of the rectangular chair is 20 sq. ft.
If it is 5 ft. long, how long is the width of the chair?

2

LINE THEM UP!

4 ft.

Misty's room is 11 feet long and 4 feet wide.
What is the area of her room?

2

LINE THEM UP!

44 sq. ft.

Marquita's room is 9 feet long and 2 feet wide.
What is the area of her room?

2

LINE THEM UP!

18 ft.

The perimeter of the room is 24 ft. If one side measures 5 ft, what is the length of the other side of the room?

2

LINE THEM UP!

7 ft.

Deja's room is 2 feet wide and 6 feet long.
What is the perimeter of her room?

2

LINE THEM UP!

24 ft.

FINISH!

what is the width of the wall?

2

LINE THEM UP!

16 ft.

FINISH!

What is the area of her room?

1

LINE THEM UP!

24 ft.

FINISH!

what is the width of the wall?

2

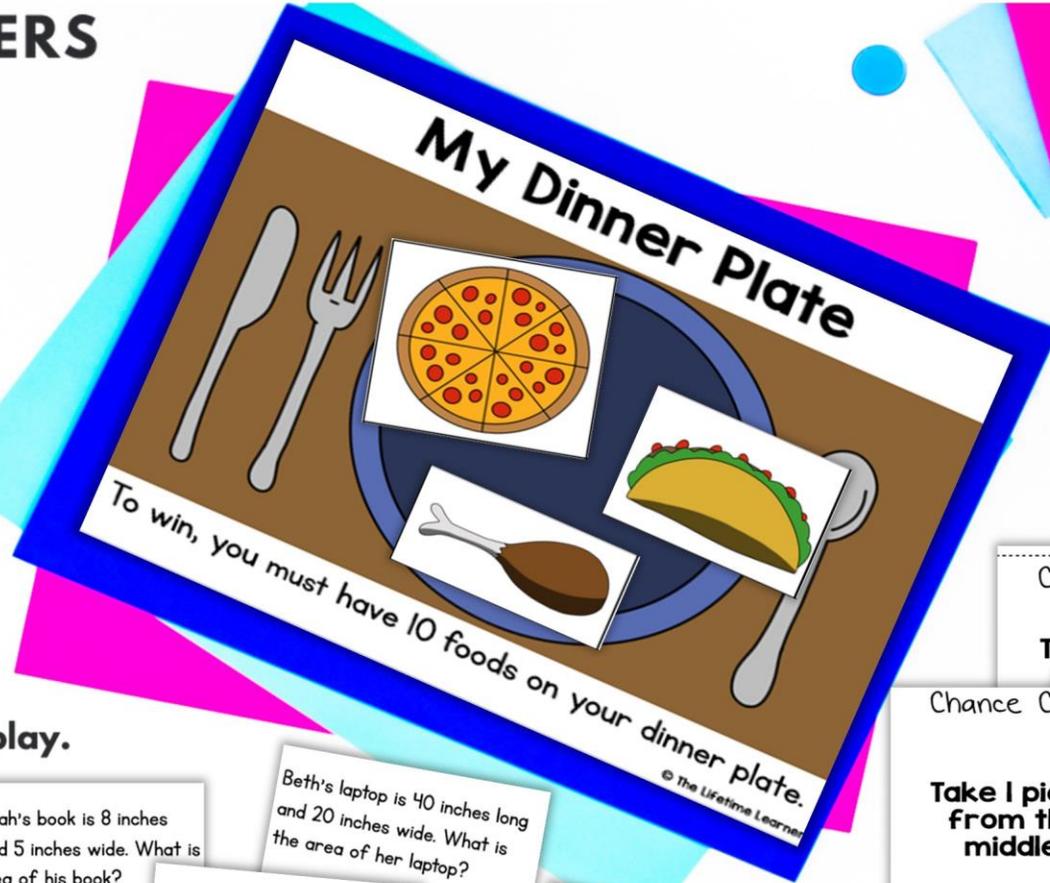
HOW TO PLAY:

- 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.

Jeremiah's book is 8 inches long and 5 inches wide. What is the area of his book?

$$8 \times 5 = 40$$

#6

Beth's laptop is 40 inches long and 20 inches wide. What is the area of her laptop?

The bookshelf has an area of 96 inches. If one side measures 8 inches, what is the length of the other side?

#23

The sandbox has a perimeter of 20 inches. If one side measures 6 inches, what is the length of the other side?

$$\begin{array}{l} \boxed{P: 20} \\ 6 + 6 = 12 \\ 20 - 12 = 8 \end{array}$$

#3

Chance Card!

To Chance Card!

Chance Card!

Take 1 piece from the middle.

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

The Lifetime Learning

GAME #3

the perfect game to play with the whole class

Blair's garden is 2 feet wide and 9 feet long. Chuck's garden is 3 feet wide and 6 feet wide. Do the gardens have the same area or the same perimeter?

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#15

Rod's room has an area of 36 square feet. If one side measures 6 feet long, what is the width of the room?

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#20

A book is 6 inches wide and 9 inches long. What is the perimeter of the front of the book?

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#12

The playground is 8 ft long and 7 ft wide. What is the area of the playground?

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#1

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.

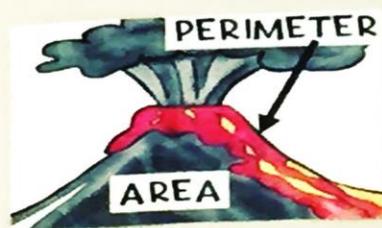
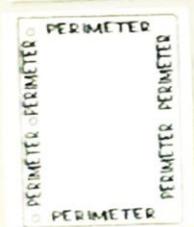
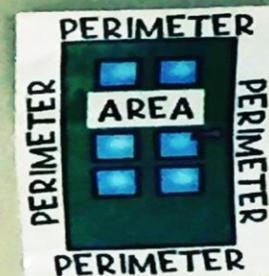
Click the bucket to see this game in action.



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.

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**

YOU MAY ALSO LIKE:

AFRICAN safari area & perimeter

3.MD.5-8

EDITABLE

3rd GRADE
By: The Lifetime Learner

ROOM TRANSFORMATION

REALTOR day area & perimeter

3.MD.5-8

EDITABLE

3rd GRADE
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ROOM TRANSFORMATION

SURGERY day rectilinear area

3.MD.7

EDITABLE

3rd GRADE
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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
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- ✓ 166 GAMES

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