

PLANNED INSTRUCTION LESSON MATERIALS

4th Grade

DUE DATE: FRIDAY, MAY 29TH

Please complete the following materials by the due date noted above.

Completed materials may be dropped off at the school (1006 West 10th Street) during food distribution Tuesdays and Fridays from 10:00am – 12:00noon, or turned in when the next week's materials are delivered to your home.

If you need assistance in completing the attached materials, please reach out to your classroom teacher via email, the school's website or Facebook page, or Class Dojo. You may also call the school directly Monday – Friday from 9:30-5:30 at 814-520-6468

Mrs. Veronica Will, Principal 814 873-5158

Mr. Aubrey Favors, Interim CEO 814 812-3026

5/11/2020

584-585

Essential Questions Genre Tall Tale

Like any baby, Paul needed a cradle

to sleep in. Papa made one, but Paul

grew too fast and shattered it.

trees, and the sound of Paul's

Papa cut down some tall howls knocked down a few wood to make the largest

How can tall tales influence art? How do tall tales come to be?

PAUL BUNYAN

by Dennis Fertig • illustrated by Olga and Aleksey Ivanov

A BIG, BIG BABY

So on a day long ago, Papa Bunyan didn't think twice about the big cloud floating in the sky. He didn't even think twice about the group of birds flying around it. Of course, Ma heavy-looking clouds drift in from the sea isn't unusual. For folks living on the coast of Maine, seeing Bunyan did.

Suddenly, Papa yelled, "Wait, that's not a cloud. It's a

The gap formed a new body of water called the Bay of Fundy. carved out big chunks of Canada just north of Maine. Folks who don't believe it should look at a map!

to crash into the coast! The colossal waves

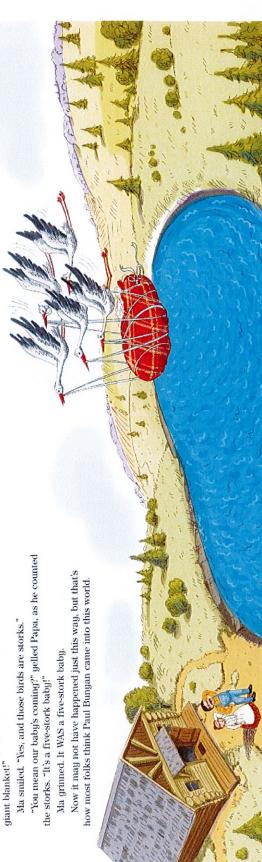
Soon the rocking caused great waves

baby to sleep, but Paul's size made the cradle rock faster and faster.

in the water a little off shore. The gentle waves rocked the

cradle the world will ever see! The Bungans set the cradle

more. Papa and Ma used that



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ate of New York.

Paul walked with huge steps across

PAUL ROAMS

Soon Paul was toppling more trees than a spinning tornado. As Paul grew, Papa taught him how to be a lumberjack

morning, teenaged Paul packed some tools and bade Papa and Ma good-bye. Paul traveled west to find tall trees and Like most youngsters, Paul had dreams. One summer good lumberjack work.

Forest on the border between Vermont and New York. In New peak or two! Then Paul walked through the Green Mountain York, Paul reached a forest clearing and went to sleep. After rugged White Mountains. He even jumped over a towering Paul walked with long strides through Maine. After he all, he had walked nearly three hundred fifty miles since crossed into New Hampshire, he hiked up and down the leaving home that morning.

for the water from the falls to flow into. The pit is called Lake

Ontario.

Paul loved the falls and spent time digging out a large pit

the water to fall back to Earth. When the water fell, it created

Niagara Falls!

the water. His splash was so large that it took five days for

Paul walked quickly and covered another three hundred

they became known as the Finger Lakes.

fifty miles by late afternoon. When he reached the Niagara River, he was very hot, so he made a cannonball jump into

earthquake! His hands hit the ground so hard that they left long, deep ditches in the dirt. After rain filled those ditches

Then when Paul slipped and fell, he actually did cause an Some folks claimed they felt earthquakes as he walked.

> The next day, Paul woke up as thirsty as a mule, so he drank all the water in a nearby pond. It was a small pond,



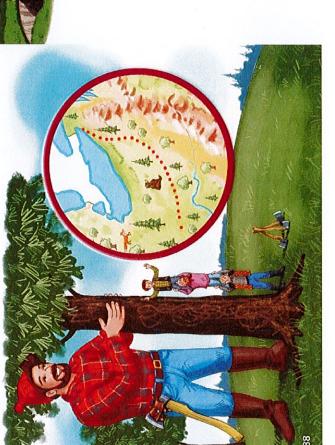
588-589

BIGGER AND STRONG!

Over the next few years, he grew into a stronger, taller man. Paul Bunyan was a strong, tall teen when he left Maine. Some folks say he was bigger than two tall men-maybe three men, maybe more-stacked on top of each other.

Paul had herculean strength, too, and used it. When he was Paul dug fast, tossing huge shovelfuls of dirt up into the high new lakes, so he dug another one, which became Lake Erie. in Pennsylvania, for example, he decided he liked digging

When Paul stopped digging, he looked up and discovered he was now in the state of Ohio.





digging Lake Huron next to the state of Michigan, he noticed piece of land sticks out into Lake Huron. It forms the thumb a huge forest of tall trees. Paul dug around the forest. That When he was Paul also dug the other three Great L in the mitten-shape of Michigan.

on wide rivers to sawmills. He logged so many trees that even With his own crews, he cut down huge trees and floated them today, almost every wooden building, bench, table, wagon, He spent some time working in Wisconsin logging camps. Curiosity and lake digging took Paul into Wisconsin. and doghouse contains drops of Paul Bungan's sweat.

lumberjacks made Paul into a legend of sorts. They swapped stories with each other about all the remarkable things Paul did. Some folks say those stories were exaggerations. Some Paul worked with dozens of different lumberjacks. The tales might have been exaggerated, but not many. 589

590-591

A BLUE OX NAMED BA

When Paul was lumberjacking with his crew in Minnesota, he made a special discovery, It was in the Winter of Blue Snow. The deep, drifting snow that year was actually blue! Look it up!

The snow was so deep that only a giant like Paul could trek through it. The good news was that lumberjacks didn't need to cut down trees. Heavy snows made them topple over.

running, stomping game of tag created footprints that formed

the ten thousand lakes of Minnesota!

travel again. He loaded tools, food, cooking equipment, and

large vats of water on a big sled

that Babe pulled. As they crossed into Iowa, the big sled cleared acres of land

for farmers to use.

After some years in Minnesota, Paul felt the urge to

was when they chased each other all over Minnesota. Their

Paul and Babe had some fine adventures. The best one

talked about an ox that was as strong as Paul!

Babe was happy to work with Paul and his crew. Babe would pull heavy logs or wagons filled with tons of water and grub. Folks had always said Paul was as strong as an ox. Now they

is Paul was tall.

Babe grew quickly and soon was as

One day, Paul spotted a patch of shivering blue snow. Wore! It's really cold when the snow shivers, he thought.

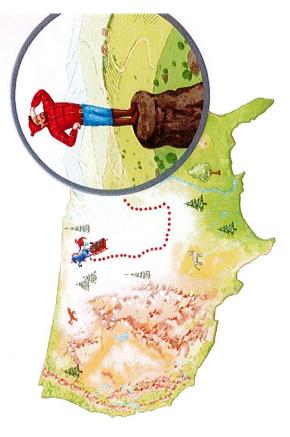
Paul brushed away the snow and discovered a half-frozen, teeth-chattering baby ox. Paul noticed two strange things about this ox. First, it was as blue as the sky, maybe from the cold or maybe from the snow. Second, it was the biggest baby ox Paul had ever seen. It might even have been a five- or six-stork baby ox! Paul manned the ox "Rebe".



GOOD DEEDS

For some time, Paul and his crew worked in the Missouri forests, near the Mississippi River. Paul did more than cut trees. When the river flooded, he had Babe drink river water while Paul built a huge dam. But Babe gulped so much water that the dam wasn't needed!

Folks in Kansas heard how Paul and Babe cleared familand in Iowa, so they sent one hundred twenty-eight officials to Missouri to ask Paul to do the same in Kansas. Paul agreed, and Babe gave all one hundred twenty-eight officials a free ride back to Kansas on his big sled. The sled cut a deep, wide path in Missouri. Folks say the Lake of the Ozarks now fills part of that path.



From Kansas, Paul and Babe and the wraveled west. Paul still could walk as fast as a pronghom antelope could run. Babe was a bit slower, so Paul let the ox rest in the middle of Nebraska. Paul wanted to see what was ahead, so he built a three-hundred-foot tall tower to stand on. Today, folks call it Chinney Rock.

The friends traveled through South and North Dakota, and had a few small adventures along the way. One time big, big Paul helped a family find a lost child. Paul found the boy on top of Black Elk Peak, the highest mountain east of the Rockies, and jumped to the top of the mountain to rescue him. That boy grew up to be the governor of South Dakota.

Paul also stopped a charging herd of buffalo from destroying a small town in North Dakota. He lassoed all one hundred of the beasts with one giant rope!

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A SAD TIME

Paul and his lumberjack crew worked all over the West. It was hard, but it was work Paul loved. Babe loved it, too, but Paul knew work was getting harder for his old friend. One summer evening in Montana, Paul could tell Babe was feeling under the weather. That night, Babe died in Paul's

Paul thought back to the day he found Babe shivering in the snow. The discovery was a blessing. Babe had become his best friend.

big arms.

Paul started to weep big, big tears and did not stop for days. His tears pooled up and flowed south. Folks say Faul's tears were the beginning of the Missouri River. The incredible thing is that the new river flowed past or through many of the places Paul and Babe had logged.

Paul and his crew moved on to Wyor It was hot and dry. The crew needed water. Paul looked for an underwater spring. With mightly swings of his ax, he dug holes in the ground. On the third swing, he hit a gusher, but it was not cool drinking water that burst out. It was a geyser of hot water and steam. Paul had just opened Old Faithful! He used the hot water to make tea for the crew.

While traveling in Colorado, Paul visited the Rocky

Mountains. He was shocked when he read a wooden sign at the top of the highest peak. It said: These Rocky Mountains were formed by dirt Paul Bunyan flung miles into the air when

he dug the Great Lakes.







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59H

596-597

PAUL STILL FEELS YO

crew to meet him in a New Mexico forest near Wheeler Peak. Paul planned to jump from one Rocky Mountain peak to the The Rocky Mountains also reach into New Mexico. Paul planned to log the forests there. In Colorado, Paul told his next until he reached Wheeler Peak.

Paul and his crew left on the same day. The crew worried Paul was too old to leap from mountain to mountain. Paul

snow-packed roads, Paul jumped from one mountain peak jumping from peak to peak as fast as possible. He was as to another. At first, he was careful. Soon, though, he was As the crew took wagons full of supplies along strong as in the old days! was a bit worried too.

slid down a mountainside feet first! His nuge body knocked a map too. People today probably never think about Paul The most important thing for Paul was arriving in the y, and Paul down trees and made a wide, smooth path into a valley. Today, that route is called the Taos Ski Valley. That's on The peaks were snow-covered and sl Bunyan as they ski down the mountain.

forest before his crew. In fact, Paul had logged half the trees way, that's how Paul and his heavy ax carved out the Grand behind him as he visited Arizona, Utah, and Nevada. By the Wheeler Peak. This may be why he dragged his big ax Paul did feel a tad tired for a time after his race to by the time they arrived. Canyon.



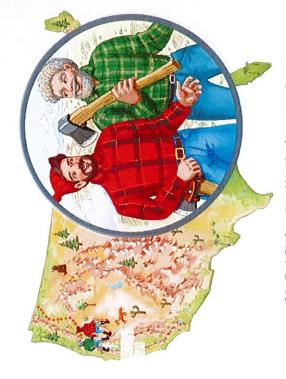
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A NEW FRIEND

hurt much, but trees crashed all around him. Folks say his fall created a long, deep crack along the West Coast. It's called the California, he fell out of a gigantic redwood tree. He wasn't As Paul grew older, life became more difficult. In San Andreas Fault.

many stories about Big Joe as they told about Paul. By chance, Over the years, Paul heard about a big, strong lumberjack Paul met Big Joe in the Cascade Mountains, which stretch in Canada named Big Joe Mufferaw. Folks told almost as from California to Canada.





shrunk about twenty feet! The two men stared at each other. iountaintop to mountaintop. They met because both Paul and Joe jumped They weren't sure they liked each other. It was good they onto the same mountain at the same time. That mountain both knew not to judge a book by its cover. Like Paul, Big Joe enjoyed jumping fi

through Oregon and Washington. They cooked suppers over contest, they talked. They swapped stories as they walked rocks. Folks say they created two big volcanoes that waymountaintop campfires and put the flames out with huge After Paul and Big Joe had a brief mountain-jumping Mount Hood and Mount Rainier.

They talked so much that they walked right into Canada and didn't know it!

The two became good friends. Folks say they continue to swap stories even to this day as they hike together through the Cascade Mountains. 665



Literature Meets Art



Use the different sections of this letter to begin conversations with your child about what he or she is learning.

Big Idea: Where do you see literature and art together?

Ask your child how this week's reading selection helps him or her answer this question.

This week's reading selection: Paul Bunyan

Summary: This tall tale tells about a fictional larger-than-life character named Paul Bunyan. From the time he was a baby, Paul Bunyan made a big splash. Trekking across North America as a lumberjack, he caused earthquakes, created waterfalls, dug out lakes, and formed mountain ranges.

DISCUSS with your child the various landforms that Paul Bunyan created or changed according to the tall tale.

Vocabulary Have your child make flashcards to practice reading and defining these words.

drift verb to move because of a current of air or water cradle noun a small bed for a baby, often on rockers

lumberjack noun a person who cuts down trees and gets logs ready for the sawmill

towering adjective very tall

border noun a line where one country or other area ends and another begins; boundary

herculean adjective having enormous strength, courage, or size

toppleverbto fall or cause to fall forwardurgenouna strong desire or impulse

ahead adverb in front

weep verb to show sorrow, joy, or other strong emotion by crying a break or narrow opening between the parts of something

by chanceadverb phraseaccidentallystretchverbto reach; extendbriefadjectiveshort in time

Spelling Practice these words with your child.

I. activity 8. dishonest 15. population 2. applauded 16. rearrange 9. excuse 3. bargaining 10. gratefully 17. sighed 4. breezy II. identifying 18. successful 5. collision 12. identity 19. uneventful 6. concentrated 13. muscle 20. worthless

14. nondairy

Challenge

7. desert

1. evacuated 2. excursion 3. unconscious

Language Arts

Writing: Your child will learn about the format of a business letter. Then he or she will plan, draft, revise, edit, and publish a business letter. **Grammar**: Your child will review nouns, verbs, adjectives, adverbs, and pronouns.

▶ HAVE your child look through books or magazines and identify five sentences. Then have your child identify the nouns, verbs, adjectives, adverbs, and pronouns in the sentences.

Recognizing

Cause & Effect

the reason for an action, event, or decision

what happened as a result of the cause

Look for Cause & Fifect key words

as a result of because because of by virtue of consequently due to

due to the fact on account of owing to resulting in seeing that since thanks to the reason for therefore whereas which means

-Think about sentence structure

Sometimes, the Cause comes first in the sentence.

All of the students ride a bus to school so the bike racks have been removed.

The students made a thousand dollars in their candy sale which means they get to go on their trip.

Sometimes, the **Effect** comes first in the sentence.

The students were given bag lunches because the electricity was out in the cafeteria.

All of the students can eat in the cafeteria thanks to the donation of ten new tables.

Cause and Effect Quiz

A cause is a reason why something happens. An effect is what happens as a result. Example: The baby began to cry (cause) so mom gave her a bottle. (effect) *Choose the correct effect of each cause. Your email address (vwill@erieriseacademy.org) will be recorded when you submit this form. Not you? Switch account * Required What is your name? * Your answer 1. It was raining outside. 1 point She won her soccer game. We pulled out an umbrella. Lance flew his kite. She answered it. 2. The boy tripped on the rock. 1 point She played in the sand. The dog began to bark. He had nothing to wear. He fell and scraped his knee. Other:



3. N	fom locked the car door.	1 point
0	I shoveled the driveway.	
0	Flowers began to grow	
0	We couldn't get in the car.	
0	He ate dinner.	
0	Other:	
4. A	Il the clothes were dirty.	1 point
0	She answered it.	
0	Lance flew his kite.	
0	He had nothing to wear.	
0	He got a belly ache.	
0	Other:	
5. L	ee's mom took her to the beach.	1 point
0	He ate dinner.	
0	She won the soccer game.	
0	Flowers began to grow.	
0	She played in the sand.	



6. Tyler was hungry.	1 point
He ate dinner.	
The dog began to bark.	
O I couldn't cut the grass.	
I shoveled the driveway.	
Other:	
7. The phone rang.	1 point
	-
She played in the sand.	
She answered it.	
We pulled out an umbrella.	
We couldn't get in the car.	
8. It snowed outside.	1 point
8. It snowed outside. Flowers began to grow.	1 point
	1 point
Flowers began to grow.	1 point
Flowers began to grow. I shoveled the driveway.	1 point
Flowers began to grow. I shoveled the driveway. He fell and scraped his knee.	1 point
 Flowers began to grow. I shoveled the driveway. He fell and scraped his knee. She won the soccer game. 	1 point
 Flowers began to grow. I shoveled the driveway. He fell and scraped his knee. She won the soccer game. Other: 	1 point
 Flowers began to grow. I shoveled the driveway. He fell and scraped his knee. She won the soccer game. Other: 9. Robert ate too many jellybeans. 	
 Flowers began to grow. I shoveled the driveway. He fell and scraped his knee. She won the soccer game. Other: 9. Robert ate too many jellybeans. He got a belly ache. 	
 Flowers began to grow. I shoveled the driveway. He fell and scraped his knee. She won the soccer game. Other: 9. Robert ate too many jellybeans. He got a belly ache. She played in the sand. 	
 Flowers began to grow. I shoveled the driveway. He fell and scraped his knee. She won the soccer game. Other: 9. Robert ate too many jellybeans. He got a belly ache. 	



10. Nana plants seeds in the garden.	1 point
He had nothing to wear.	
Cance flew his kite.	
The dog began to bark.	
Flowers began to grow.	
Send me a copy of my responses.	
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B

Pronouns Quiz

A pronoun is a word that takes the place of a noun.

A personal pronoun is used to substitute the names of people or things that perform actions.

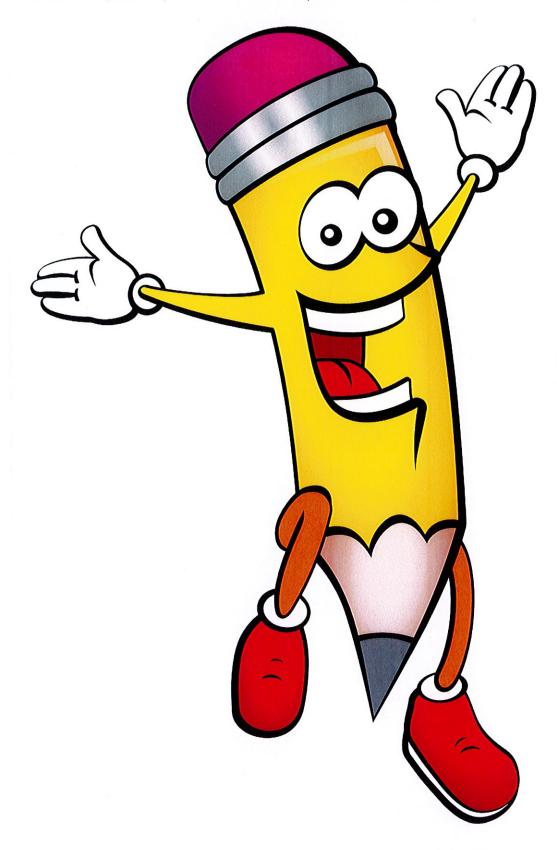
Common Personal Pronouns include: I, me, he, she, it, him, her, you, we, they, them

* Required



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Choose the personal pronoun that best completes each sentence.







What is your name? *	
Your answer	
1. Don't forget to tell the directions.	1 point
○ they	
it it	
(them	
2 are very reliable students.	1 point
	97. * 0.010288
(them	
her	
(they	
3. My best friend is Sarah always listens to me.	1 point
<u>Не</u>	
○ They	
○ She	
4. Mrs. Barger is reading book.	1 point
() it	,
her	
(them	



5. I did my nomework after school was difficult.	1 point
○ she	
O it	
him	
6. One of the girls forget to bring cheer uniform.	1 point
O her	
O him	
O 1	
7. The boys played baseball improved a lot.	1 point
O he	
O him	
O they	
O My family layers to see set for divine	
8. My family loves to go out for dinnerlove to go to Taco Bell.	1 point
○ He	
○ We	
○ She	
9 are a very fast runner!	1 point
○ He	
Him	
O You	

8

IO. Can you stand next to in line?	1 point
) him	
she	
O it	
11. My brother loves to play football plays everyday.	1 point
\bigcirc 1	
○ We	
○ He	
12 did a great job on my test!	1 point
○ He	
O Him	
\bigcirc 1	
13. I can tell really enjoyed the movie.	1 point
O you	
O her	
him	
14. The book was amazing was about aliens.	1 point
○ She	
Не	
O It	

15. Do not let inside of they building.	1 point
O we	
they	
O them	
Other:	
16. I know are excited to go on a field trip.	1 point
me .	
they	
her	
17 want to travel around the world.	1 point
O 1	
Her	
O It	
18. Do know what time it is?	1 point
O me	
She	
O you	

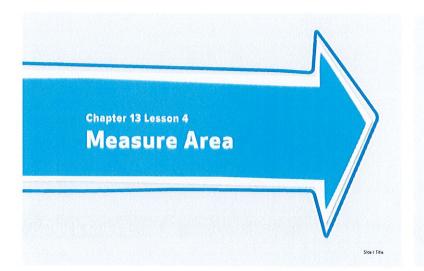
19 are excited to go back to school.	1 point
○ She	
<u>Не</u>	
○ We	
20 work well together as a team.	1 point
○ Them	
○ They	
○ Me	
Submit	

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ESSENTIAL QUESTION

Why is it important to measure perimeter and area?



Side 2 Essential Question

Problem of the Day

Mario arranges pieces of wood in a straight line with no gaps. The lengths of each piece are 8 inches, $\frac{1}{2}$ foot, I foot, and 4 inches. What is the length of the line in inches?

Problem of the Day

Mario arranges pieces of wood in a straight line with no gaps. The lengths of each piece are 8 inches, $\frac{1}{2}$ foot, I foot, and 4 inches. What is the length of the line in inches?

30 inches

Slide 4: Problem of the Day Art

Slide 3: Problem of the Doy

Quick Check

Solve.

- I. Cassandra earned \$19 each day walking her neighbor's dog. How much money did Cassandra earn in 5 days?
- 2. Jaxon rides his bike $2\frac{1}{2}$ miles on Friday and twice as far on Sunday. How many total miles did he ride his bike?

Quick Check

Solve.

- Cassandra earned \$19 each day walking her neighbor's dog. How much money did Cassandra earn in 5 days?
 \$95
- Jaxon rides his bike 2 ½ miles on Friday and twice as far on Sunday. How many total miles did he ride his bike?
 7½ miles

Slide 5: Quick Check Exercises 1-2

Side & Quick Check Exercises I-2 Answer

Quick Check

Solve.

3. Fluffy and Spotty each eat two cat treats a day. How many total cat treats do they eat in a week?

Side J. Quick Check Exercise 3

Quick Check

Solve.

3. Fluffy and Spotty each eat two cat treats a day. How many total cat treats do they eat in a week?

28 cat treats

Side & Duick Check Exercise 3 Accures

Quick Check

- 4. Test Practice Mr. Morel is installing square tiles in his bathroom. He installs 5 rows of 6 tiles. How many tiles did he install altogether?
 - A. 20 tiles
 - B. 25 tiles
 - C. 30 tiles
 - D. 36 tiles

Side 9: Quick Check Exercise 4

Quick Check

- 4. Test Practice Mr. Morel is installing square tiles in his bathroom. He installs 5 rows of 6 tiles. How many tiles did he install altogether?
 - A. 20 tiles
 - B. 25 tiles
 - **(C.)** 30 tiles
 - D. 36 tiles

Side IO Quick Check Exercise 4 Answers

INVESTIGATE the Math



How would you describe how to measure area in your own words?



INVESTIGATE the Math



Describe how the formula $A = l \times w$ relates to counting the number of square units in the figure.



There are	square unit	s in the figure.
The length of	the figure is _	units.
The width of	the figure is	units.

Side it. Investigate the Math-Explore

Side I2: Investigate the Math-Model

INVESTIGATE the Math



Describe how the formula $A = l \times w$ relates to counting the number of square units in the figure.



There are 12 square units in the figure.

The length of the figure is 4 units.

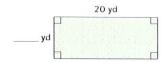
The width of the figure is 3 units.

Side i3. Investigate the Math-Model Answers

INVESTIGATE the Math



A practice soccer field measures 20 yards in length. The area of the soccer field is 160 square yards. What is the width of the soccer field?

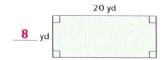


Side IH. Investigate the Math-Exten

INVESTIGATE the Math



A practice soccer field measures 20 yards in length. The area of the soccer field is 160 square yards. What is the width of the soccer field?



Side iS Investigate the Math-Extend Answers

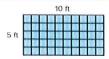
Math in My World

Example 1

The Perez family wants to put the sandbox shown in their backyard. What is the area of the sandbox?

One Way Count unit squares.

Tile the rectangle with unit squares. Each unit square has an area of one square foot.





There are unit squares.
There are square feet.

So, the area of the sandbox is square

Side 16. Math in My World Example I-One Way

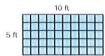
Math in My World

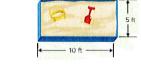
Example 1

The Perez family wants to put the sandbox shown in their backyard. What is the area of the sandbox?

One Way Count unit squares.

Tile the rectangle with unit squares. Each unit square has an area of one square foot.





There are 50 unit squares.
There are 50 square feet.

So, the area of the sandbox is square feet.

Math in My World

Example 1

The Perez family wants to put the sandbox shown in their backyard. What is the area of the sandbox?

Another Way Multiply.

Multiply the length times the width to find the area.

 $A = \text{length} \times \text{width}$

 $A=\ell\times w$

 $A = 10 \text{ feet} \times 5 \text{ feet}$

A = square feet



Side 17: Wath in My World Example I-One Way Answers



Math in My World

The Perez family wants to put the sandbox shown in their backyard. What is the area of the sandbox?

Another Way Multiply.

Multiply the length times the width to find the area.

 $A = \text{length} \times \text{width}$

 $A = \ell \times w$

 $A = 10 \text{ feet} \times 5 \text{ feet}$

A = 50 square feet



Slide 19. Math in My World Example I-Another Way Answers

Math in My World

Key Concept Area of a Rectangle

To find the area A of a rectangle, multiply the length ℓ by the width w. $A = \ell \times w$

Math in My World

Key Concept Area of a Square

To find the area A of a square, multiply the length

of one side s by itself.

 $A = s \times s$



Side 21: Math in My World Key Concept-2



Math in My World

Example 2



The area and the measure of one side of the square is given. Find the measure of the missing side.

Write the formula.

 $64 = 8 \times s$

Think: 8 times what number equals 64?

s = meters

The measure of the missing side is _____ meters.



Area = 64 so m

Slide 22. Worth in My World Example 2

Math in My World

Example 2

The area and the measure of one side of the square is given. Find the measure of the missing side.

 $A = s \times s$

Write the formula

 $64 = 8 \times s$

Think: 8 times what number equals 64?

s == 8 meters

The measure of the missing side is 8 meters.



Area = 64 sq m

Guided Practice

Find the area of each square or rectangle.





Guided Practice

Find the area of each square or rectangle.



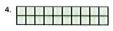
A = 32 square units

A = 9 square yards

Independent Practice

Find the area of each square or rectangle.





Independent Practice

Find the area of each square or rectangle.



A = 16 sq units



A = 20 sq units

GOIR MATE

area of a square.

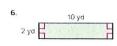
Describe two ways to find the

Slide 27. Independent Proctice Exercises 3-4

Independent Practice

Find the area of each square or rectangle.

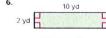




Independent Practice

Find the area of each square or rectangle.

A = 12 sq m



A = 20 sq yd

Independent Practice

Algebra The area and the measure of one side of each square or rectangle are given. Label the missing sides.





Area = 49 square inches

Area = 32 square meters

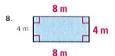
Side 3i. Independent Practice Exercises 7-8

Side 33 Independent Practice Exercises 9-10

Independent Practice

Algebra The area and the measure of one side of each square or rectangle are given. Label the missing sides.





Area = 49 square inches

Area = 32 square meters

Side 32 Independent Practice Exercises 7-8 Answers

Independent Practice

Algebra The area and the measure of one side of each square or rectangle are given. Label the missing sides.

9.



Area = 5 square centimeters

10



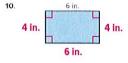
Area = 24 square inches

Independent Practice

Algebra The area and the measure of one side of each square or rectangle are given. Label the missing sides.



Area = 5 square centimeters



Area = 24 square inches

Slide 34. Independent Practice Exercises 9-10 Answers

Problem Solving

11. Each child in Mrs. Dixon's class has a rectangular notebook that has an area of 108 square inches. If the notebook?

Problem Solving

11. Each child in Mrs. Dixon's class has a rectangular notebook that has an area of 108 square inches. If the notebook is 9 inches wide, what is the length of the notebook?

12 inches



12. A car is 15 feet long and 6 feet wide. It is parked on a rectangular driveway with an area of 112 square feet. How much of the driveway is not covered by the car?



12. A car is 15 feet long and 6 feet wide. It is parked on a rectangular driveway with an area of 112 square feet. How much of the driveway is not covered by the car?

22 sq ft

Slide 37: Problem Solving Exercise IZ

Side 38. Problem Solving Exercise 12 Answers



Problem Solving

Practices

Plan Your Solution A rectangular playground is 40 meters by 10 meters. Its area will be covered with wood chips. Each bag of wood chips covers 200 square meters and costs \$30. Find the total cost for this project.



Problem Solving

13. AFFACILCOS Plan Your Solution A rectangular playground is 40 meters by 10 meters. Its area will be covered with wood chips. Each bag of wood chips covers 200 square meters and costs \$30. Find the total cost for this project.

\$60

Slide 39. Problem Solving Exercise I3

Side 40: Problem Solving Exercise I3 Answers

Brain Builders

14. **Reason If the sides of a square are doubled, will the area also double? Explain.

Brain Builders

Sample answers: 14, 15

Processes

14. & Practices

Reason If the sides of a square are doubled, will the area also double? Explain

no; It will quadruple. For example: The area of a square with a side measuring 3 ft is 9 sq ft. Doubling the side length to 6 ft gives an area of 36 sq ft. 36 is 4 times as great as 9.

Building on the Essential Question How does finding the area of a rectangle or square with unit squares relate to using the formula to find the area?

Sample answers: 14, 15

Building on the Essential Question How does finding the area of a rectangle or square with unit squares relate to using the formula to find the area?

The total number of unit squares is equal to the number of rows times the number of columns needed to fill the rectangle or square. This is the same thing as multiplying the side lengths to find the area.

Side 43. Brain Builders Exercise i5

MY Homework

Find the area of each figure.



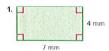
A = square millimeters

square units

MY Homework

Practice

Find the area of each figure.



A = 28 square millimeters

Side 45. My Homework Exercises i-2

Slide 46 My Homework Exercises I-2 Answers

MY Homework

Practice

Find the area of each figure.



5 units

A = square units

A = square units

MY Homework

Find the area of each figure.



A = 15 square units

A = 25

square units

MY Homework



Processes
5. aPractices
Justify Conclusions One side of a square is
10 units. Which is greater, the number of square units for the area
of the square or the number of units for the perimeter? Explain.

Side 49 My Homework Exercise 5

MY Homework



5. a Practices

Justify Conclusions One side of a square is
10 units. Which is greater, the number of square units for the area
of the square or the number of units for the perimeter? Explain.

Sample answer: The number of square units for the area

is greater. The area is 100 square units, and the

perimeter is 40 units; 100 > 40.

Side 50: My Homework Exercise 5 Answers

MY Homework



6. Eric created a rectangular patio using 1-foot square paving stones, which are sold in batches by the dozen. The patio measures 7 feet by 8 feet. How many batches of paving stones did Eric need? Explain. (Hint: 1 dozen = 12)

Side 51: My Homework Exercise

MY Homework



Sample answer: 6

6. Eric created a rectangular patio using 1-foot square paving stones, which are sold in batches by the dozen. The patio measures 7 feet by 8 feet. How many batches of paving stones did Eric need? Explain. (Hint: 1 dozen = 12)

5 batches; 7 ft \times 8 ft = 56 sq ft. So, 56 stones are

needed. $56 \div 12 = 4 R8$. So, 5 batches are needed.

Side 52 My Homework Exercise & Answers

MY Homework



- 7. Test Practice What is the perimeter of the rectangle?
 - A 22 inches
- © 24 inches
- B 26 inches
- D 28 inches



A = 30 sq in.

MY Homework



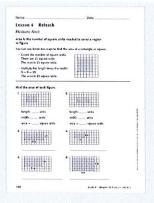
- 7. Test Practice What is the perimeter of the rectangle?
 - ② 22 inches
- © 24 inches
- 26 inches
- D 28 inches



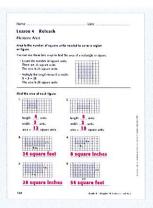
A = 30 sq in.



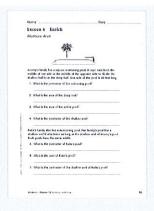


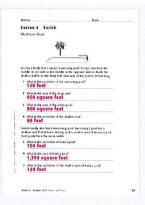


Slide RI. Refeach Page 108



Slide R2: Releach Page 108 Answers





5 Area Assignment

Area is the number of square units needed to cover a region or figure.

You can use these two ways to find the area of a rectangle or square.

- · Count the number of square units.
- Multiply the length times the width.
 Area= length x width

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* Required

Area of a Rectangle

Key Concept Area of a Rectangle

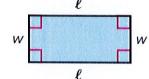
Words

To find the area A of a rectangle, multiply the length ℓ

by the width w.

Symbols

 $A = \ell \times w$



Area of a Square

Key Concept Area of a Square

Words

To find the area A of a square, multiply the length

of one side s by itself.

Symbols

 $A = s \times s$



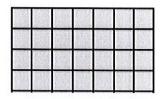
9

What	is	your	name?	
------	----	------	-------	--

Your answer

1.) Find the area of the rectangle. *

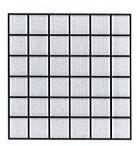
1 point



- 36 square units
- 24 square units
- 28 square units
- 48 square units

2.) Find the area of the square. *

1 point



- 24 square units
- 36 square units
- 48 square units
- 72 square units

3.) Find the area of the rectangle. *

1 point



\bigcirc	30 squa	are units
------------	---------	-----------

26 square units

45 square units

36 square units

4.) A square courtyard has sides that are 7 meters long. What is its area? * 1 point

49 square meters

14 square meters

28 square meters

40 square meters

5.) A rectangular picture on the wall has a width of 8 inches and a length of 1 point 11 inches. What is its area? *

44 square inches

38 square inches

88 square inches

19 square inches

Send me a copy of my responses.



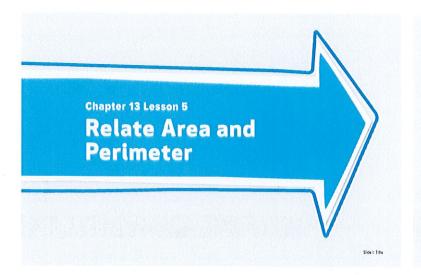
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ESSENTIAL QUESTION

Why is it important to measure perimeter and area?



Slide 2 Essential Question

Problem of the Day

Josh and 5 friends bought tickets to a soccer game. Each ticket cost \$15. How much did the group spend for tickets?

Problem of the Day

Josh and 5 friends bought tickets to a soccer game. Each ticket cost \$15. How much did the group spend for tickets?

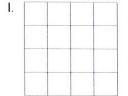
\$90

Slide 4 Problem of the Doy Artsw

Side 3 Problem of the Day

Quick Check

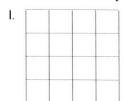
Find the area of each square or rectangle.



2.

Quick Check

Find the area of each square or rectangle.



2.

16 sq units

16 sq units

Slide 5: Quick Check Exercises I-2

Side & Quick Check Exercises i-2 Answers

Quick Check

Find the area of each square or rectangle.

3.



4.

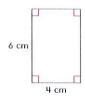


Slide J. Quick Check Exercise 3-4

Quick Check

Find the area of each square or rectangle.

3.



4



24 sq cm

21 sq cm

Side 8. Quick Check Exercise 3-4 Answe

Quick Check

- 5. Test Practice Molly is making a cover for her math book.

 The front and back each measure 8 in. × 12 in. The spine measures 2 in. × 12 in. What is the combined area of the cover?
 - A. 96 sq in.
 - B. 100 sq in.
 - C. 120 sq in.
 - D. 216 sq in.

Side 9 Quick Check Exercise 5

Quick Check

- 5. Test Practice Molly is making a cover for her math book. The front and back each measure 8 in. × 12 in. The spine measures 2 in. × 12 in. What is the combined area of the cover?
 - A. 96 sq in.
 - B. 100 sq in.
 - C. 120 sq in.
 - (D.) 216 sq in.

Skde IO: Quick Check Exercise 5 Answer

INVESTIGATE the Math



Why can two rectangles have the same perimeter but different areas?

INVESTIGATE the Math



The dimensions of two rooms are shown below. Find the perimeter of each room. Find the area of each room.



Perimeter = ____ feet
Area = ____ square feet



Perimeter = ____ feet Area = ____ square feet

Side it: Investigate the Math-Explore

Side (2: Investigate the Moth-Mode

INVESTIGATE the Math



The dimensions of two rooms are shown below. Find the perimeter of each room. Find the area of each room.





Perimeter =
$$28$$
 feet
Area = 40 square feet

Side i3. Investigate the Mort-Model Answers

INVESTIGATE the Math



Leici builds a deck that is 6 feet by 6 feet. Troy builds a deck that is 12 feet by 3 feet. Who needs more railing to surround their deck? Use perimeter to explain. Who needs more flooring to build the deck? Use area to explain.

Slide N. Divestigate the Math-Exterio

INVESTIGATE the Math



Leici builds a deck that is 6 feet by 6 feet. Troy builds a deck that is 12 feet by 3 feet. Who needs more railing to surround their deck? Use perimeter to explain. Who needs more flooring to build the deck? Use area to explain.

Leici's Deck:

Perimeter = $(2 \times 6) + (2 \times 6) = 24$ feet

Area = $6 \times 6 = 36$ square feet

Troy's Deck:

Perimeter = $(2 \times 12) + (2 \times 3) = 30$ feet

Area = $12 \times 3 = 36$ square feet

Troy's deck needs more railing to surround his deck since the perimeter is larger. The areas of the decks are equal so they both would need the same

amount of flooring.

Slide IS: Investigate the Math-Extend Answers

Math in My World

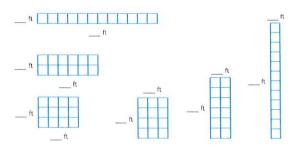
Example 1

The swim team put its trophy on a table that has an area of 12 square feet. List all of the possible lengths and widths the table could have

Side & Math in My World Example H

Math in My World

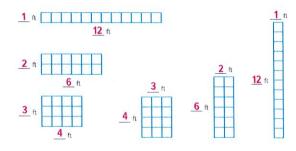
The models show all of the possible lengths and widths the table could have.



Slide i7: Moth in My World Example I-2

Math in My World

The models show all of the possible lengths and widths the table could have.





Math in My World

So, the table could have the following possible lengths and widths.

×	= 12	×	= 12
×	= 12	X	= 12
	25.2340		40

Sixle 19. Math in My World Example 1-3

Math in My World

So, the table could have the following possible lengths and widths.

1	×	12	= 12	12	×	1	= 12
2	×	6	== 12	6	×	2	== 12
3	×	4	== 12	4	×	3	= 12

Side 20. Math in My World Example I-3 Answers

Math in My World

Find the rectangle with the greatest area whose perimeter is 14 units. The table shows each rectangle that has a perimeter of 14 units. Complete the table.

Drawing	Rectangle Dimensions	Area
1 6 6 1+6+1+6=14	1×6	6 square units
2 5 2 5 2 + 5 + 2 + 5 = 14	2 ×	square units
3 + 4 + 3 + 4 = 14	3 ×	square units

Side 2: Moth in My World Example 2-i

Math in My World

Find the rectangle with the greatest area whose perimeter is 14 units, The table shows each rectangle that has a perimeter of 14 units. Complete the table.

Drawing	Rectangle Dimensions	Area
1 6 6 1 + 6 + 1 + 6 = 14	1×6	6 square units
2 5 2 5 2 + 5 + 2 + 5 = 14	2× 5	10 square units
3 3	3 × 4	12 square units

Side 22: Math in My World Example 2-I Answers

Math in My World

Example 2

Find the rectangle with the greatest area whose perimeter is 14 units.

The greatest area is square units. So, the rectangle with the greatest area is units by units. Its area is square units.

Math in My World

Example 2

Find the rectangle with the greatest area whose perimeter is 14 units.

The greatest area is 12 square units. So, the rectangle with the greatest area is units by 4 units. Its area is 12 square units.

Side 23 Moth in My World Example 2-2

Side 24: Math in My World Example 2-2 Answers

Guided Practice

List all the possible dimensions of rectangles for each area.

1. 9 square units

2. 14 square units

×

×

Guided Practice

List all the possible dimensions of rectangles for each area.

1. 9 square units

2. 14 square units

1 ×

1 × 14

3 × 3

1 × 14

9 × 1

7 × 2

14 × 1

Side 25 Guided Practice Exercises 1-2

Side 26. Guided Practice Exercises I-2 Answers

TOUR MATE

Which rectangle in Example 2 has the least area?

Slide 27: Talk Moth

Independent Practice

List all the possible dimensions of rectangles for each area.

3. 16 square units

4. 20 square units

Slide 28. Independent Practice Exercises 3-4

Independent Practice

List all the possible dimensions of rectangles for each area.

3. 16 square units

4. 20 square units

1 × 16

1 × 20

2 × 8

2 × 10

4×4

4×5

8 × 2

5 × 4

16 × 1

10 × 2

20 × 1

Independent Practice

Find the perimeter and area for each square or rectangle.

5.

6.

Perimeter:

Area:

Perimeter:

Area:

Independent Practice

Find the perimeter and area for each square or rectangle.





Perimeter:

16 units

Area: 16 square units

rimeter: 20 units

Area: 16 square units

Side 3: Independent Practice Exercises 5-6 Answers

Independent Practice

7. What do the figures in Exercises 5 and 6 have in common? How do these figures differ?

Slide 32: Independent Proctice Exercise 7

Independent Practice

7. What do the figures in Exercises 5 and 6 have in common? How do these figures differ?

Sample answer: These figures both have the same area,

but they have different perimeters.

Side 33. Independent Proctice Exercise 7 Arawers



Processes

Plan Your Solution Violet is making a rectangular banner for the basketball team to run through before the start of the game. She has 24 square feet of paper. List all of the possible dimensions of rectangles with an area of 24 square feet.

Side 34: Problem Solving Exercise 8

Problem Solving

8. aractices

Plan Your Solution Violet is making a rectangular banner for the basketball team to run through before the start of the game. She has 24 square feet of paper. List all of the possible dimensions of rectangles with an area of 24 square feet.

1 ft \times 24 ft, 2 ft \times 12 ft, 3 ft \times 8 ft,

4 ft × 6 ft, 6 ft × 4 ft, 8 ft × 3 ft,

12 ft × 2 ft, 24 ft × 1 ft



Problem Solving

9. Which of the dimensions found in Exercise 8 has the greatest perimeter?



9. Which of the dimensions found in Exercise 8 has the greatest perimeter?

1 ft × 24 ft or 24 ft × 1 ft

Children Control				
0	Breu	n K	HILL	ars
				010

 If a rectangle has a greater perimeter than another rectangle, does it also have a greater area? Explain, Include a model to support your answer.

Slide 37 Problem Solving Exercise 9 Answers

Slide 38. Brain Builders Exercise 10

Brain Builders

 If a rectangle has a greater perimeter than another rectangle, does it also have a greater area? Explain. Include a model to support your answer.

Not necessarily. Rectangles can have

different perimeters, but their areas

can be the same.

Sample answers: 10-12

See students' models.

Side 39. Brain Builders Exercise 10 Answers

Brain Builders

11. aPractices Reason Is it possible to draw a rectangle that has an area of 24 square units and a perimeter of 24 units? Explain.

Slide 40' Brain Builders Exercise II

Brain Builders

Sample answers: 10-12

11. Processes

Practices

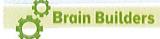
Reason is it possible to draw a rectangle that has an area of 24 square units and a perimeter of 24 units? Explain.

no; There are four possible length and width combinations that have an area of 24 square units. None of these combinations have

a perimeter of 24 units.

Brain Builders

12. Building on the Essential Question What is the difference between area and perimeter?



Sample answers: 10-12

12. Building on the Essential Question What is the difference between area and perimeter?

Area measures the number of square units that cover a figure.

Perimeter measures the distance around a figure.

Slide 43. Brain Builders Exercise 12 Answer

MY Homework

ractica

Draw two possible rectangles for each perimeter. Find the area of each.

1. 20 units

2. 8 units

Slide 44. My Horsework Exercises 1-2

MY Homework

Practice

Draw two possible rectangles for each perimeter.
Find the area of each.

Sample answers: 1, 2

1. 20 units

2. 8 units

A = 16 sq units

A = 4 sq units

A = 21 sq units

A = 3 sq units

Side 45. My Homework Exercises I-2 Answers

MY Homework

O Brain

Processes
3. aPractices
Use Number Sense Tomás drew a rectangle with an area of 6 square centimeters. What is the greatest possible perimeter for this rectangle? Explain.

Side 46 My Homework Exercise 3

MY Homework

O Brain
O Builders

Processes

3. Apractices

Use Number Sense Tomás drew a rectangle with an area of 6 square centimeters. What is the greatest possible perimeter for this rectangle? Explain.

14 cm; The two choices for the dimensions are 1 cm

by 6 cm or 2 cm by 3 cm. 14 cm > 10 cm

MY Homework

O Brain
O Builders

4. Danica has laid out floor tiles so they form a rectangle with a perimeter of 18 inches. What is the difference between the greatest and least possible areas of the rectangle? Explain.

MY Homework



 Danica has laid out floor tiles so they form a rectangle with a perimeter of 18 inches. What is the difference between the greatest and least possible areas of the rectangle? Explain.

12 sq in.; The greatest possible area is 20 sq in. The least possible area is 8 sq in. The difference is 12 sq in.

Slide 49. My Hornework Exercise 4 Answers

MY Homework



A rectangle has an area of 30 square meters and a perimeter of 34 meters. What are the dimensions of the rectangle? Explain.

Slide 50 My Homework Exercise 5

MY Homework



5. A rectangle has an area of 30 square meters and a perimeter of 34 meters. What are the dimensions of the rectangle? Explain.

2 m by 15 m; Area: $2 \text{ m} \times 15 \text{ m} = 30 \text{ sq m}$,

Perimeter: $2 \times (2 \text{ m} + 15 \text{ m}) = 34 \text{ m}$

MY Homework



- 6. Test Practice A square has a perimeter of 28 feet. What is its area?
 - A 45 square feet
- © 49 square feet
- 48 square feet
- D 50 square feet

Slide St. My Homework Exercise S Answers

Side 52 My Homework Exercise 6

MY Homework



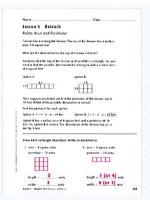
- 6. Test Practice A square has a perimeter of 28 feet. What is its area?
 - (A) 45 square feet
- 49 square feet
- B 48 square feet
- D 50 square feet

Note:

Action 5 Release
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Side 53: My Homework Exercise & Answers

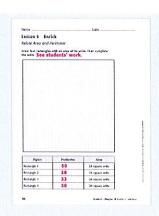
Side Ri. Reteach Page 109





Slide R2. Reteoch Page 109 Answers

Side El: Ervich Page 96



Side E2: Enrich Page 96 Answers

Relate Area and Perimeter Assignment

Perimeter is the distance around a closed figure. To find the perimeter, add the lengths of all the sides.

Area is the number of square units needed to cover a region or figure.

You can use these two ways to find the area of a rectangle or square.

- · Count the number of square units.
- Multiply the length times the width.
 Area= length x width

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* Required

Perimeter of a Rectangle

Key Concept Perimeter of a Rectangle

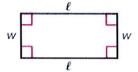
Words

To find the perimeter of a rectangle, add the lengths of the sides. The perimeter of a rectangle also equals 2 times its length plus 2 times its width.

Symbols

$$P = \ell + w + \ell + w$$

$$P = (2 \times \ell) + (2 \times w)$$



Area of a Rectangle

Key Concept Area of a Rectangle

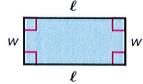
Words

To find the area A of a rectangle, multiply the length ℓ

by the width w.

Symbols

 $A = \ell \times w$



Area of a Square

Key Concept Area of a Square

Words

To find the area \boldsymbol{A} of a square, multiply the length

of one side s by itself.

Symbols

 $A = s \times s$

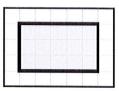


What is your name? *

Your answer

1.) Find the perimeter of the shaded figure. *

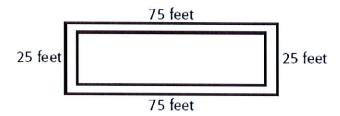
1 point



- 25 units
- 18 units
- 20 units
- 16 units

2.) Kambyre walked around the park on the path shown. How far did Kambyre walk? *

1 point

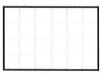


- 100 feet
- 150 feet
- 175 feet
- 200 feet
- 3.) Jean Paul was laying tile in his bathroom. The room measured 10 feet in a point length and 6 feet in width. What is the area of the bathroom? *
- () 32 ft
- 256 ft
- 120 ft
- () 60 ft

9

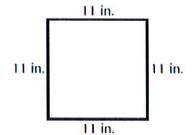
4.) Find the perimeter and area for the figure. *

2 points



- Perimeter = 20 units; Area = 24 square units
- Perimeter = 10 units; Area = 36 square units
- Perimeter = 24 units; Area = 20 square units
- Perimeter = 36 units; Area = 10 square units
- 5.) What is the perimeter of this square? *

1 point

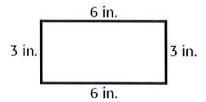


- () 12o in.
- 44 in.
- 144 in.
- () 55 in.



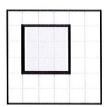
6.) What is the perimeter of the rectangle? *

1 point



- 18 in.
- O 24 in.
- 36 in.
- () 42 in.
- 7.) What is the area of the shaded figure? *

1 point



- 6 square units
- 9 square units
- 12 square units
- 3 square units

8.) What is the area of this rectangle? *		
7 yd 5 yd		
12 sq yd		
24 sq yd		
○ 35 sq yd		
○ 30 sq yd		
9.) Find the area of a square with a side measuring 8 ft. *	1 point	
9.) Find the area of a square with a side measuring 8 ft. * 64 ft.	1 point	
	1 point	
O 64 ft.	1 point	
64 ft.20 ft.	1 point	
64 ft.20 ft.32 ft.	1 point	
64 ft.20 ft.32 ft.	1 point	

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Earthquakes, Volcanoes, and Landslides

Multiple Choice quiz

* Required

Your email address (vwill@erieriseacademy.org) will be recorded when you submit this form. Not you? $\underline{Switch\ account}$

What is your name? *	1 point
Your answer	
What is a volcano? *	1 point
A tall, cone-shaped rock	
A vent that connects magma in the Earth's crust to the Earth's surface	
A rock that erupted	
Can a volcano be under water/ice? *	1 point
○ No	
O Yes	
Only on other planets	
The largest volcano is on Mars *	1 point
True	
○ False	



What causes an earthquake? *	1 point
A crack under the Earth	
Erosion	
When tectonic plates hit, bump, or slide past another	
Can you always feel when an earthquake is happening? *	1 point
O Nope	
Of course!	
What are the three types of earthquakes? *	1 point
Surface, underground, and underwater	
Convergent, divergent, and transform	
What is a landslide? *	1 point
When the land slides and changes form	
The under mass is dislocated and travels down-slope	
None of the above	
Out of all of the reasons, which is the biggest cause of landslides? *	1 point
Gravity	
Weather	
O Pressure	



H

To avoid dealing with landslides, it is best to live in/build a house on flat land 1 point with no hills, mountains, or slopes *
The time, meantaine, or slopes
True
○ False
Send me a copy of my responses.
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