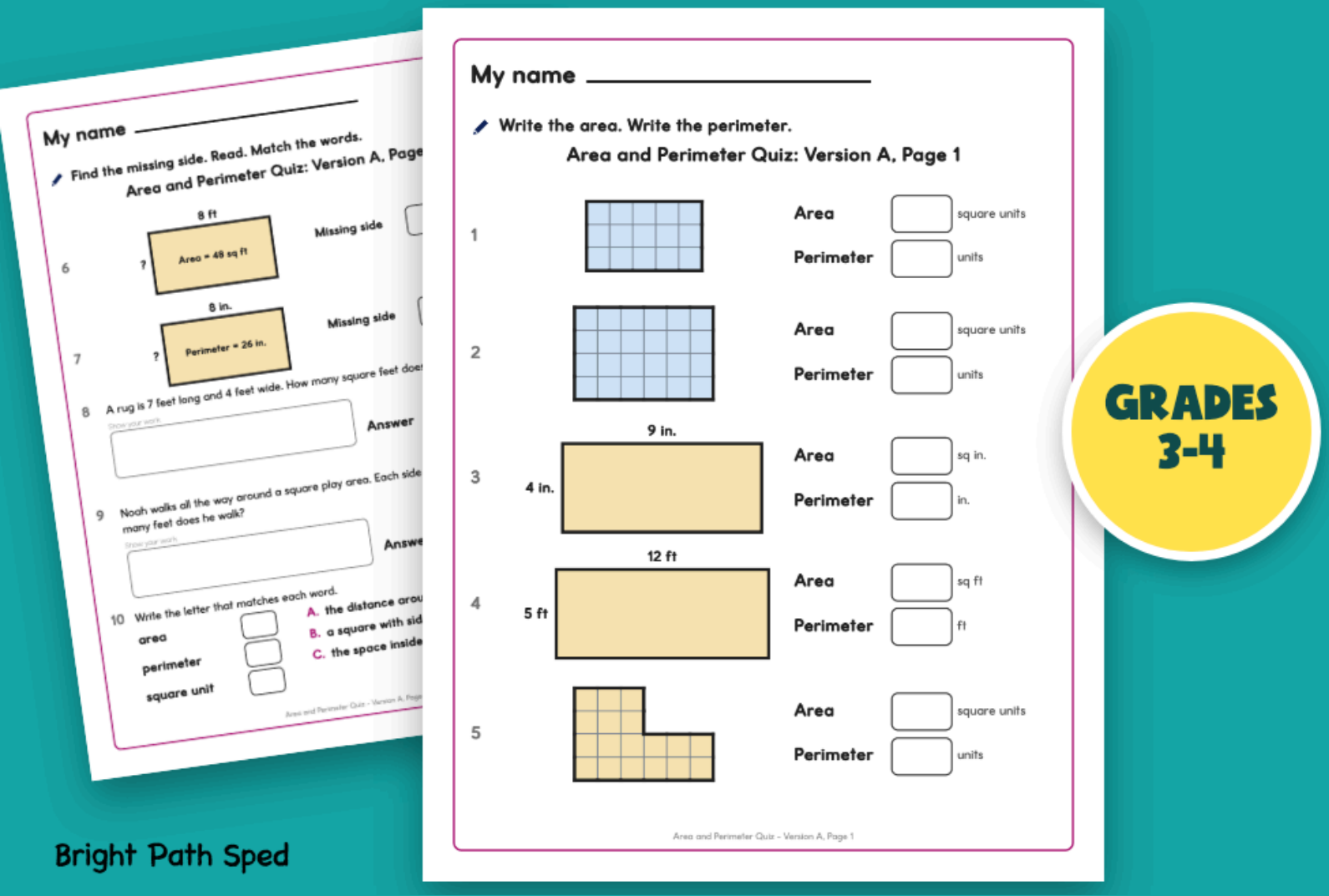
AREA AND PERIMETER QUIZ

2 VERSIONS WITH KEY



GRADES 3-4

Bright Path Sped

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- This file is for one classroom: one teacher, one group of students.
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- Extra licenses for a team or a school are available on the product page.

This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a box, type, and Save As.
- The name line and every answer box are type-in fields. You can also print a page and let students write in the boxes with a pencil.
- It works offline once downloaded.

Print at 100 percent

Turn off fit to page and shrink to fit so the grids stay the size they were drawn. Each square is the same size on the page. Pages print in color or in black and white; the square tints are light, so a gray print still reads.

Student work

A filled-in class record carries student names. Keep it in the data folder, and use first names only on any page that leaves your hands.

Need help?

If a box will not behave or a page will not print the way you expect, use Ask a Question on the product page before leaving a review. Every question is read, and a fix to the file ships as a free update: re-download it any time from My Purchases.

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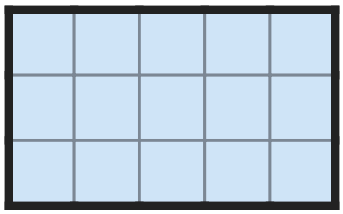
PREVIEW

My name _____

Read the examples. Then try one.

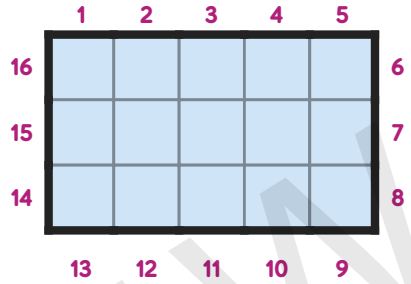
Area and Perimeter: Learn It

Area: space inside



Count the squares: **15 square units**.
3 rows of 5 is 15.

Perimeter: distance around



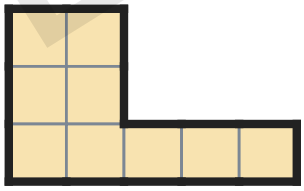
Count the edges: **16 units**.

A rectangle with sides



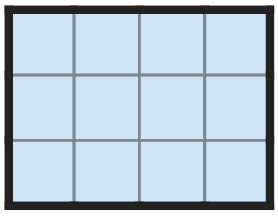
Area: 7 x 3 = **21 sq in.**
Perimeter: 7 + 3 + 7 + 3 = **20 in.**
Missing side? Area 21, one side 3: 3 x ? = 21, so **? = 7**.

An L-shape



Area: 2 x 2 = 4 and 5 x 1 = 5, so **9 square units**.
Perimeter: 2 + 2 + 3 + 1 + 5 + 3 = **16 units**.

Your turn



Area _____ square units

Perimeter _____ units

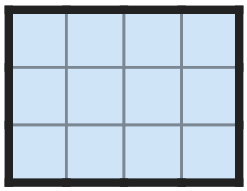
PREVIEW

My name _____

Count. Add. Write the answer.

Area and Perimeter: Reteach

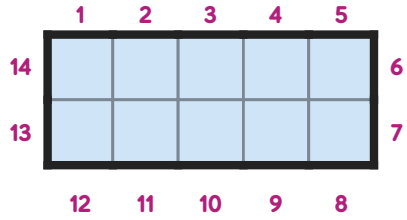
1



3 rows of 4 squares

Area ☐ square units

2



Count the numbers around

Perimeter ☐ units

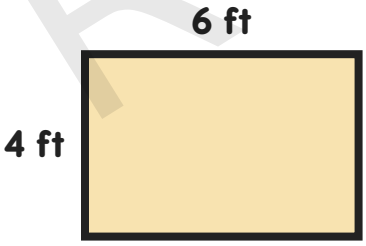
3



7 + 3 + 7 + 3

Perimeter ☐ in.

4



6 x 4

Area ☐ sq ft

Write area or perimeter.

5 **Count the squares inside.** ☐

6 **Add the sides all the way around.** ☐

7 **It is measured in square units.** ☐

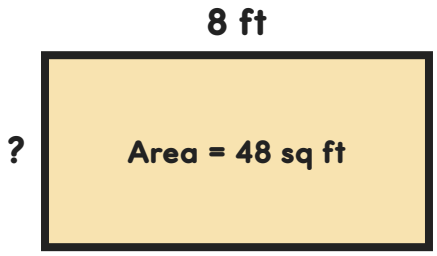
PREVIEW

My name _____

Find the missing side. Read. Match the words.

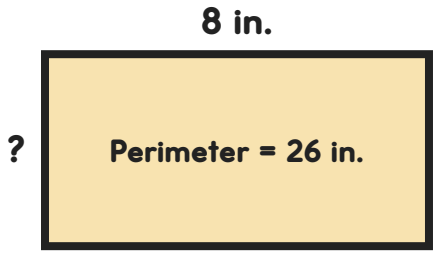
Area and Perimeter Quiz: Version A, Page 2

6



Missing side ☐ ft

7



Missing side ☐ in.

8 A rug is 7 feet long and 4 feet wide. How many square feet does the rug cover?

Show your work

Answer ☐ sq ft

9 Noah walks all the way around a square play area. Each side is 12 feet long. How many feet does he walk?

Show your work

Answer ☐ ft

10 Write the letter that matches each word.

area ☐

perimeter ☐

square unit ☐

A. the distance around a shape

B. a square with sides 1 unit long

C. the space inside a shape

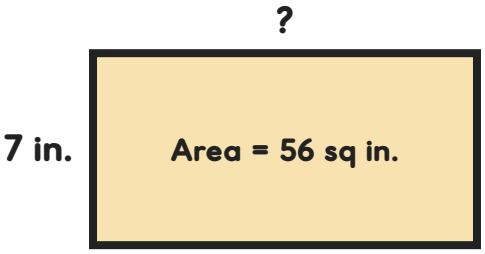
PREVIEW

My name _____

Find the missing side. Read. Match the words.

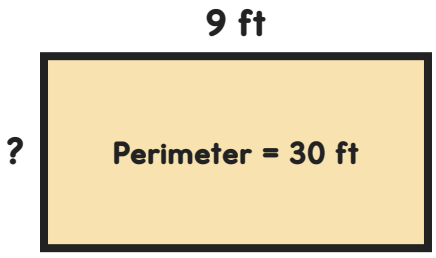
Area and Perimeter Quiz: Version B, Page 2

6



Missing side ☐ in.

7



Missing side ☐ ft

8 A poster is 9 inches long and 5 inches wide. How many square inches is the poster?

Show your work

Answer ☐ sq in.

9 A fence goes all the way around a garden that is 10 feet long and 6 feet wide. How many feet of fence is that?

Show your work

Answer ☐ ft

10 Write the letter that matches each word.

area ☐

perimeter ☐

square unit ☐

A. a square with sides 1 unit long

B. the space inside a shape

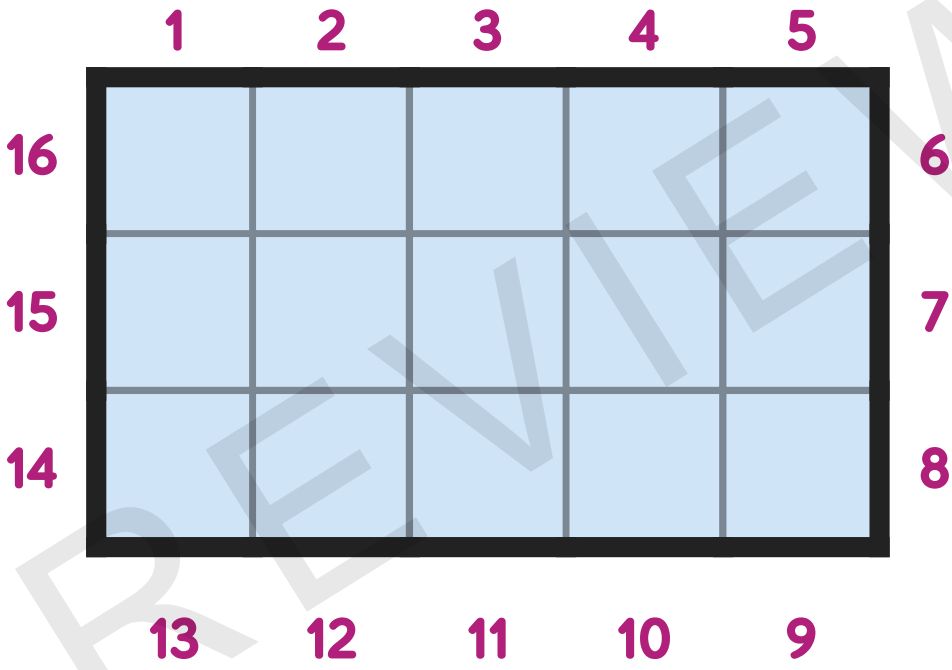
C. the distance around a shape

PREVIEW

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Perimeter

The distance around a shape



PREVIEW

Add the sides all the way around.

5 + 3 + 5 + 3 = 16

16 units

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Answer Key 2

Each answer is for the item number on its page.

Page 5: Reteach, Count and Add

1) **12** square units (3 rows of 4)
2) **14** units (the last number around)
3) **20** in. (7+3+7+3)
4) **24** sq ft (6 x 4)
5) **area**
6) **perimeter**
7) **area**

Page 10: Challenge, Same Perimeter

1) Any three different rectangles with perimeter 12: 1 by 5 (area 5), 2 by 4 (area 8), 3 by 3 (area 9). Check each area against the student's own drawing. The biggest area possible is **9**.
2) Perimeters: 1 by 12 = **26**, 2 by 6 = **16**, 3 by 4 = **14**. The smallest is the **3 by 4**.

The pages with no key

Page 4 is a learn-it page; its numbers are worked on the page and the last boxes are the only ones to check (12 and 14). Pages 11-12 are wall posters with nothing to check.

Mix-ups to watch for

- **Area and perimeter swapped.** On item 1 (a 5 by 3 grid), area is 15 and perimeter is 16. A child who writes 16 for the area added the edges instead of counting the squares.
- **Only two sides added.** For a rectangle 9 in. by 4 in., 9 + 4 = 13 is only half of the way around; the perimeter is 26.
- **Stopping early on a missing side.** On item 7, 26 / 2 = 13 is not the answer yet; take away the known side 8 to get 5.
- **L-shape edges.** On item 5 the area is 18 but the perimeter is 20; adding the area of the two parts does not give the perimeter. Count or add the outside edges.
- **Wrong rectangle on the challenge page.** A 2 by 6 rectangle has an area of 12 but a perimeter of 16, not 12; check by adding all four sides.
- **The wrong operation in a word problem.** For the fence in item 9 on Version B (10 ft by 6 ft), multiplying gives 60, which is the area; the fence is the perimeter, 32 ft.
- **Wrong unit.** Area is counted in square units (sq in., sq ft). Perimeter is counted in units (in., ft). The unit is part of the answer.

PREVIEW

Item Tally

Which items did the class miss? The same 10 skills are on both versions, so one tally works for A and for B.

Class _____ Teacher _____ Date _____

Item	Skill	Missed on A	Missed on B	Reteach with
1	Count squares and edges on a grid			Page 5
2	Count squares and edges on a grid			Page 5
3	Labeled rectangle: multiply, add			Page 5
4	Labeled rectangle: multiply, add			Page 5
5	An L-shape: split it, add the edges			Page 4
6	Missing side from the area			Page 4
7	Missing side from the perimeter			Page 4
8	Word problem, area			Page 5
9	Word problem, perimeter			Page 5
10	Area, perimeter, square unit words			Page 5

How to use it

- For each item, count the students who missed it and write the number in the Missed column. Items 1 to 5 are on page 6 (A) and page 8 (B); items 6 to 10 are on page 7 (A) and page 9 (B).
- A skill with many misses gets a small-group lesson. Send students who missed only one or two to the reteach page.
- A student who got all 10 right can try the challenge page.

What we will reteach

PREVIEW

Area and Perimeter at Home

Send this page home with a child, or hand it to a family at a conference.

Student _____ Week of _____

How to help at home, in three steps

- Find a flat rectangle at home, such as a placemat, a book cover or a sheet of paper. Say: area is the space inside, perimeter is the distance around.
- Measure the two different sides with a ruler. Write them in the boxes. Add all four sides for the perimeter.
- Multiply the two sides for the area. Say it out loud: how many squares would cover it?

Our measuring

My rectangle is a ____ **long** ____ **wide** ____ **Perimeter** ____ **Area** ____

Another one is a ____ **long** ____ **wide** ____ **Perimeter** ____ **Area** ____

Try saying

- "Are we measuring the space inside or the distance around?"
- "What unit goes with it: units or square units?"

Note from the teacher

Note from home

PREVIEW