

AREA & PERIMETER OF RECTANGLES

4th Grade



Printable & Google Slides

AREA & PERIMETER OF RECTANGLES

4th grade

Table of Contents

1. Anchor Charts (1 page)
2. Practice Worksheets (5 pages)
3. Word Problems (6 pages)
4. Games and Activities (10 pages)
5. Test Review (3 pages)
6. Test (3 pages)



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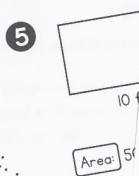
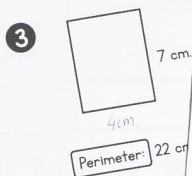
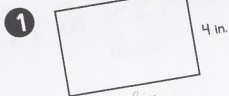
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AREA & PERIMETER

missing measurements

Directions: Each shape below is missing one dimension. Use the area or perimeter and the one dimension given to determine the missing dimension. Label the diagram.



2 Cassie is redecorating her bedroom to on rectangle that is 12 feet of carpet does

96 ft^2

AREA & PERIMETER

calculating area

Area = length $\times$ width

$$A = 6 \text{ ft.} \times 8 \text{ ft.}$$

$$A = 48 \text{ sq. ft.}$$

6 ft.

8 ft.

perimeter

The distance around the outside of a shape.

Perimeter = length + length + width + width

$$P = 6 \text{ ft.} + 6 \text{ ft.} + 8 \text{ ft.} + 8 \text{ ft.}$$

$$P = 28 \text{ ft.}$$

6 ft.

8 ft.

AREA & PERIMETER

word problems

Solve the word problems involving area below.
A new playground was just built at Elmwood Elementary. The playground is 20 yards long by 30 yards wide. What is the area of the playground?

area

Square units of space inside a shape.

Area = length x width

$$A = 6 \text{ ft.} \times 8 \text{ ft.}$$

$$A = 48 \text{ sq. ft.}$$

perimeter

The distance around the outside of a shape.

Perimeter = length + length + width + width

$$P = 6 \text{ ft.} + 6 \text{ ft.} + 8 \text{ ft.} + 8 \text{ ft.}$$

$$P = 28 \text{ ft.}$$

PERIMETER

measurements

Find the missing dimensions. Use the area or perimeter and the given measurement to find the missing measurement and label the diagram.

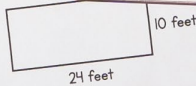
2



Area = 54 sq. ft.

TE:

6



Area = 240 ft²

& PERIMETER

one but different

Given the perimeter, draw two different rectangles that have the same perimeter. Label the dimensions.

One: Each shape below is missing one of its dimensions. Use the area or perimeter given to determine the missing measurement and label the diagram.

8 yards

8

AREA & PERIMETER

duel

Directions:

1. Work in partners or small groups.
2. Choose if you are playing with area or perimeter.
3. Cut out and shuffle the cards from the following pages.
4. Deal an equal number of cards to each player. Players leave their cards face down without looking at them.
5. On the count of three, each player flips over the top card from their pile and places it face up in the middle.

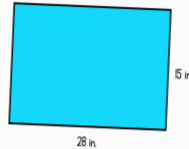
Each player calculates either the area or the perimeter of the shape shown on the card.

AREA & PERIMETER

calculating area & perimeter

Directions: Calculate the area and perimeter of the rectangles below. Use the textboxes to show your work.

5



Area: _____

Perimeter: _____

6



Area: _____

Perimeter: _____

Perimeter: 80 cm
Area: 384 cm²

Perimeter: 172 m
Area: 1,365 m²

AREA & PERIMETER

word problems

1. A new playground was just built at Elmwood Elementary. The playground is 20 yards long by 30 yards wide. How many square yards of the playground?

600 yards

NAME: _____

area

Square units of space inside a shape.

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

$$A = 6 \text{ ft.} \times 8 \text{ ft.}$$

$$A = 48 \text{ sq. ft.}$$

perimeter

The distance around the outside of a shape.

$$\text{Perimeter} = \text{length} + \text{length} + \text{width} + \text{width}$$

$$P = 6 \text{ ft.} + 6 \text{ ft.} + 8 \text{ ft.} + 8 \text{ ft.}$$

$$P = 28 \text{ ft.}$$

& PERIMETER

re but different

eter given below, draw two different rectangles that have the same perimeter.

AREA & PERIMETER

Directions:

1. Work in partners or small groups.
2. Choose if you are playing with area or perimeter.
3. Cut out and shuffle the cards from the following pages.
4. Deal an equal number of cards to each player. Players leave their cards face down without looking at them.
5. On the count of three, each player turns the top card from their pile face up in the middle.

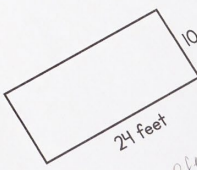
Each player calculates either the area or the perimeter of the rectangle on their card. If two players are playing area, the player with the greatest area wins. If two players are playing perimeter, the player with the greatest perimeter wins.

5



Area: 126 feet²

6



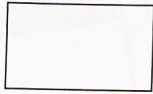
Area: 240 feet²

AREA & PERIMETER

calculating area

Directions: Calculate the area of the rectangles below. Show your work.

1



5 feet

12 feet

Area: 60 feet²

2



10 feet

4 feet

Area: 40 feet²

4



8 feet

6 feet

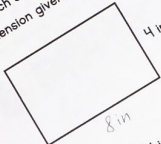
12 feet²

AREA & PERIMETER

missing measurements

Directions: Each shape below is missing one of its dimensions. Use the area or perimeter and the one dimension given to determine the missing measurement and label the diagram.

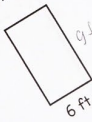
1



8 in

Perimeter: 24 in

2



6 ft

Area: 54 sq ft

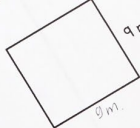
4



26 yards

Perimeter: 80

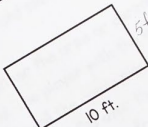
6



9 m

Area: 81 sq m

5



7 cm

Perimeter: 22 cm

Area: 50 sq ft

10 ft



5 in

6 in



5 in

8 in



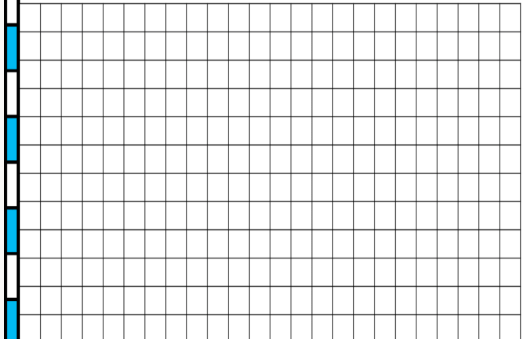
6 ft

8 ft

AREA & PERIMETER OF RECTANGLES

build a zoo

Directions: Choose 6 animals to include in a zoo and use the shape tool to draw their exhibits on the grid below. Label each exhibit with the animal name using the textbox tool. Then, calculate and record the perimeter of each pen. Each square represents one square foot.



1

animal perimeter

2

animal perimeter

3

animal perimeter

4

animal perimeter

5

animal perimeter

6

animal perimeter

AREA & PERIMETER

Solve the word problems involving area and perimeter.

A rectangular garden was just built. It is 4 ft long by 3 ft wide. What is the area of the garden?

area

Square units of space is

length x width

8 ft.

48 sq. ft.

6 ft.

Perimeter

The distance around the outside of a shape.

$$\text{Perimeter} = \text{length} + \text{length} + \text{width} + \text{width}$$

$$P = 6 \text{ ft.} + 6 \text{ ft.} + 8 \text{ ft.} + 8 \text{ ft.}$$

$$P = 28 \text{ ft.}$$

6 ft.

8 ft.

area

Square units of space inside a shape.

Area = length x width

$$A = 6 \text{ ft.} \times 8 \text{ ft.}$$

$$A = 48 \text{ sq. ft.}$$



8 ft.

6 ft.

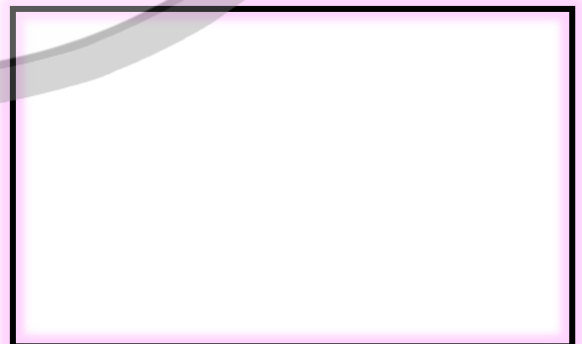
perimeter

The distance around the outside of a shape.

Perimeter = length + length + width + width

$$P = 6 \text{ ft.} + 6 \text{ ft.} + 8 \text{ ft.} + 8 \text{ ft.}$$

$$P = 28 \text{ ft.}$$



8 ft.

6 ft.

NAME: _____

DATE: _____

AREA & PERIMETER

calculating area & perimeter

Directions: Calculate the area and perimeter of the rectangles below. Show your work.

1



7 in.

4 in.

Perimeter: _____

Area: _____

2



8 in.

12 in.

Perimeter: _____

Area: _____

3



6 in.

6 in.

Perimeter: _____

Area: _____

4



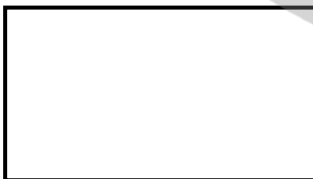
9 in.

20 in.

Perimeter: _____

Area: _____

5



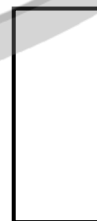
15 in.

28 in.

Perimeter: _____

Area: _____

6



34 in.

11 in.

Perimeter: _____

Area: _____

NAME: _____

DATE: _____

AREA & PERIMETER

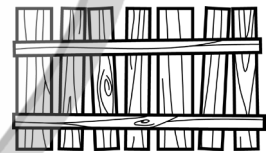
word problems

Directions: Solve the word problems involving perimeter below.

- 1** Chioma is sewing some lace trim around the edge of a rectangular tablecloth. The tablecloth is 8 feet long by 6 feet wide. How much lace will Chioma need?



- 2** Anton is building a fence around his backyard. His backyard is a rectangle that is 25 meters long by 32 meters wide. How many meters of fence does Anton need?



NAME: _____

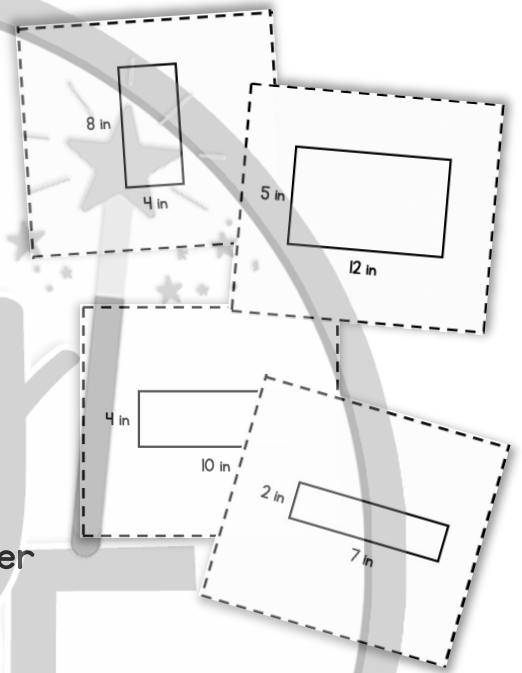
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AREA & PERIMETER

duel

Directions:

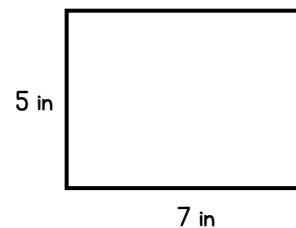
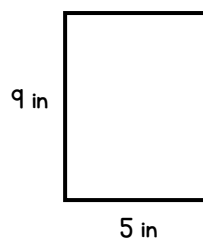
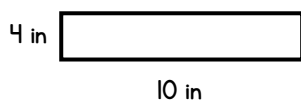
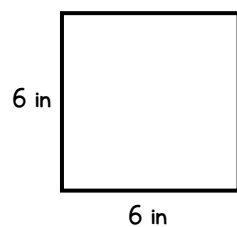
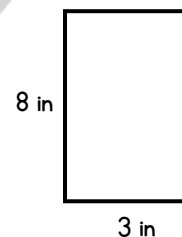
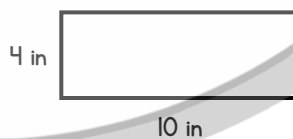
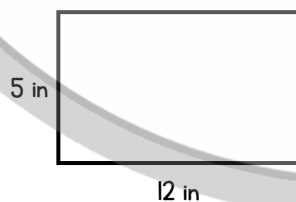
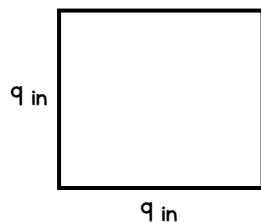
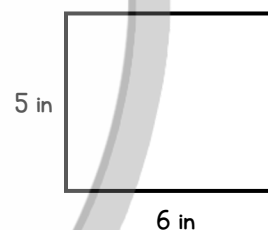
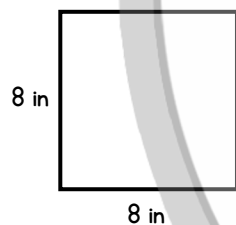
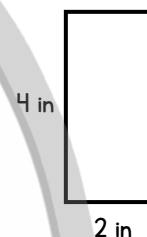
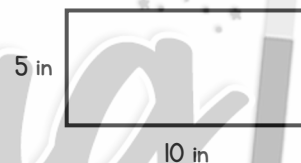
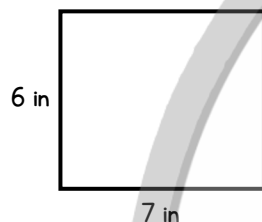
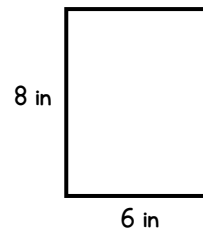
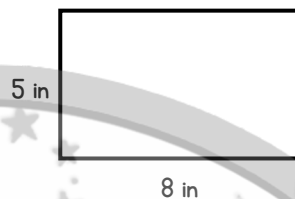
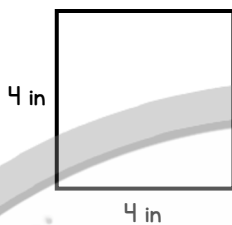
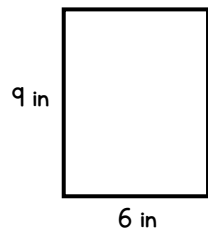
1. Work in partners or small groups.
2. Choose if you are playing with area or perimeter.
3. Cut out and shuffle the cards from the following pages.
4. Deal an equal number of cards to each player. Players leave their cards face down without looking at them.
5. On the count of three, each player flips over the top card from their pile and places it face up in the middle.
6. Each player calculates either the area or perimeter of the rectangle on their card. The player with the largest area or perimeter wins and takes all the cards played during that hand.
7. If two players are tied, they flip over the next card from their pile. The greatest area or perimeter from the new cards wins all the cards from the hand.
8. The person with the most cards at the end of the game wins.



AREA & PERIMETER

duel

© Julie Buckner



4

Area = 18 sq. ft.

Rectangle #1

Rectangle #2

5

Area = 30 sq. ft.

Rectangle #1

Rectangle #2

6

Perimeter = 42 ft.

Rectangle #1

Rectangle #2

7

Area = 24 sq. ft.

Rectangle #1

Rectangle #2

NAME: _____

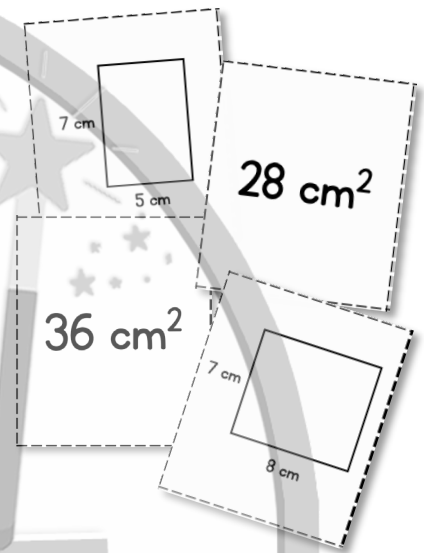
DATE: _____

AREA & PERIMETER

think fast

Directions:

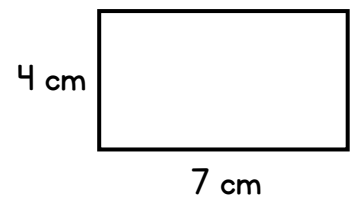
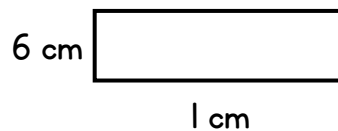
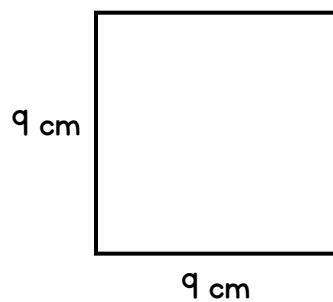
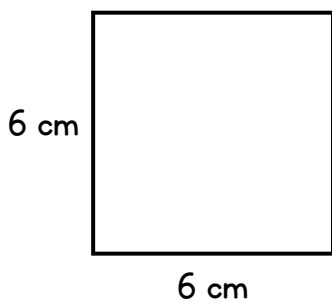
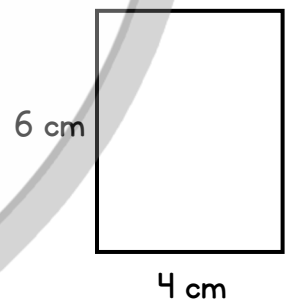
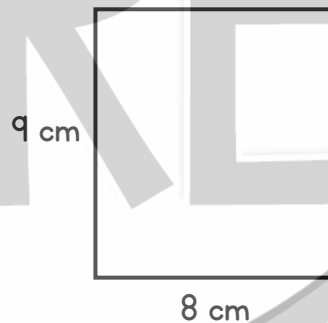
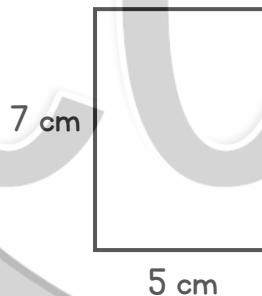
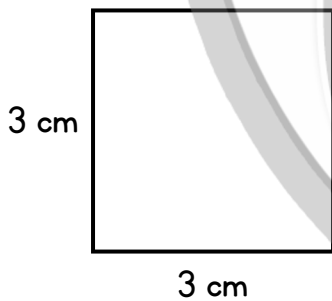
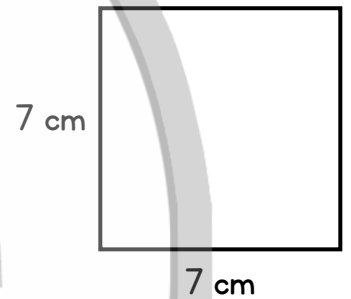
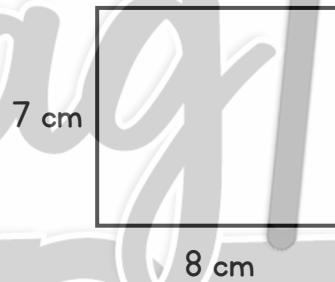
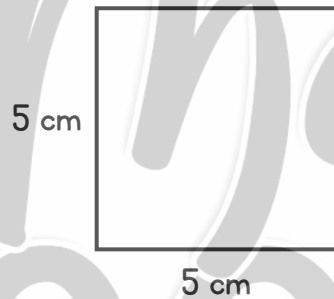
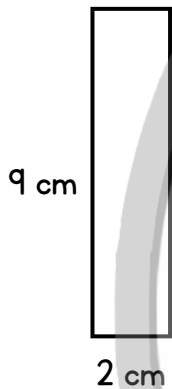
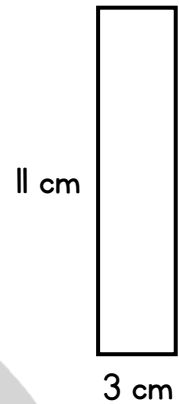
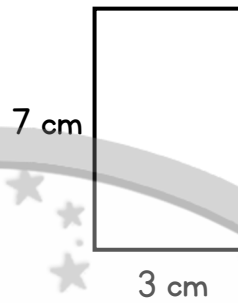
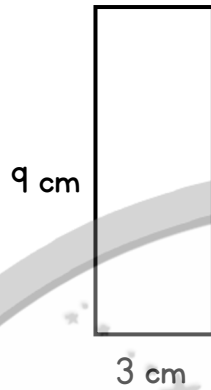
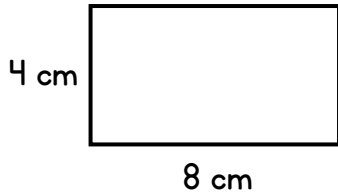
1. Work in pairs or small groups.
2. Cut out the cards on the following three pages, keeping the cards from each page separate.
3. Shuffle the shape cards and place them face down in a pile.
4. Choose to play with either the area or perimeter cards. Set the ones you aren't using aside. Shuffle the cards you are using and place them face up in neat rows on a flat surface so that all cards are visible.
5. Flip one shape card over so all players can see.
6. Find the area/perimeter card that shows the area/perimeter of the shape on the shape card and touch it.
7. The first person to touch the correct area/perimeter takes the shape card. Leave the area/perimeter card in its place.
8. Draw another shape card and repeat.
9. The player with the most shape cards at the end of the game wins.
10. Play again using the perimeter/area cards you haven't used yet.



AREA & PERIMETER

think fast – shape cards

©Julie Béchère



NAME: _____

DATE: _____

AREA & PERIMETER

test review

Directions: Calculate the perimeter and area of the rectangles below. Show your work.

1

6 feet

13 feet

Perimeter: _____

Area: _____

2

7 yards

4 yards

Perimeter: _____

Area: _____

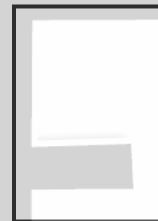
3

8 inches

10 inches

Perimeter: _____

Area: _____

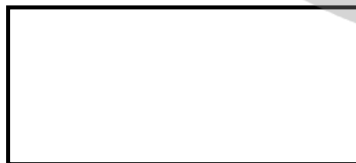
4

25 cm.

12 cm.

Perimeter: _____

Area: _____

5

16 feet

40 feet

Perimeter: _____

Area: _____

6

6 meters

9 meters

Perimeter: _____

Area: _____

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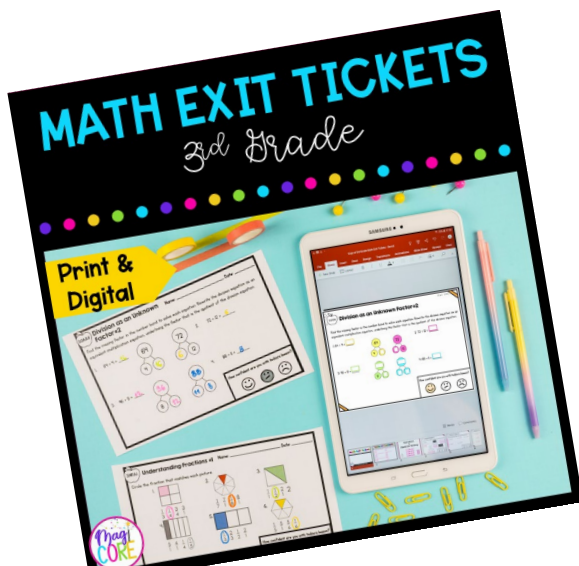


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