Name & Surname: _____ Class: _____ Date: _____

Perimeter Patrol

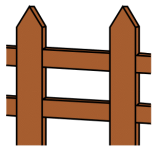
Walk around shapes to measure the edge

About 35 minutes Level ★★★☆☆

Perimeter in Steps

The **perimeter** is the distance around the outside of a 2D shape.

- Start at one **corner** and add each side as you go around.
- Opposite **sides** of a rectangle are equal. A square has 4 equal sides.
- Write the answer with **units** like inches (in) or feet (ft). Example: 6 + 4 + 6 + 4 = 20 in.



Task A

/7

Find the perimeter and area for each shape.

1



Area: _____ in²

Perimeter: _____ in

2



Area: _____ in²

Perimeter: _____ in

3



Area: _____ in²

Perimeter: _____ in

4



Perimeter: _____ in

Created with LessonDino.com · AI lesson planner with checkable sources

Add All Sides

Practice finding perimeter and a missing side.

Key words

perimeter: distance around the outside of a shape

side length: how long one edge of a shape is

rectangle: shape with 4 square corners and opposite sides equal

polygon: closed shape made of straight sides

area: space inside a shape

unit: what you measure in, like inches or feet

Task B

/10

Add all the sides to find the perimeter.

WARM UP

1. A square has sides 4 in long. What is its **perimeter**?

   Answer: _____

2. A triangle has sides 3 in, 5 in and 4 in. What is its **perimeter**?

   Answer: _____

3. A rectangle is 6 in long and 2 in wide. What is its **perimeter**?

   Answer: _____

4. A regular hexagon has sides 2 in each. What is its **perimeter**?

   Answer: _____

PRACTICE

5. A rectangle is 8 in long and 5 in wide. What is its **perimeter**?

   Answer: _____

6. A square has **perimeter** 20 ft. How long is each **side**?

   Answer: _____

7. A triangle has **perimeter** 18 in. Two sides are 6 in and 5 in. How long is the missing **side**?

   Answer: _____

PROBLEM SOLVING

8. A garden is 10 ft long and 6 ft wide. How many feet of **fence** go around it?

   Answer: _____

9. A picture frame is 9 in long and 7 in wide. How much **wood** makes the frame?

   Answer: _____

10. Explain why the **perimeter** of a 4 in square is 16 in and not 16 square inches.

    Answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

Spot the Mistake

Find what went wrong in someone else's work.

Task C

/6

Find the wrong step, explain the mistake, and fix it.



Student A

Find the **perimeter** of a rectangle 7 in long and 3 in wide.

1. 7 + 3 = 10
2. So the perimeter is 10 in

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Find the **perimeter** of a square with side 6 in.

1. 6 × 6 = 36
2. So the perimeter is 36 in

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student C

Find the **perimeter** of a triangle with sides 4 in, 6 in and 7 in.

1. 4 + 6 + 6 + 7 = 23
2. So the perimeter is 23 in

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

Same But Different

Explore rectangles with same perimeter or same area.

Task D

/10

Use perimeter and area to compare rectangles.

WARM UP

1 A triangle has **perimeter** 21 ft. Two sides are 7 ft and 8 ft. How long is the missing **side**?

Answer: _____

2 A rectangle has **perimeter** 26 in. It is 10 in long. How wide is it?

Answer: _____

3 A square has **perimeter** 36 ft. How long is each **side**?

Answer: _____

PRACTICE

4 Rectangle A is 8 ft long and 4 ft wide. What is its **perimeter**?

Answer: _____

5 Rectangle B is 10 ft long and 2 ft wide. What is its **perimeter**?

Answer: _____

6 What is the **area** of Rectangle A (8 ft by 4 ft)?

Answer: _____

PROBLEM SOLVING

7 Both **rectangles** have perimeter 24 ft. Rectangle A has area 32 square ft and Rectangle B has area 20 square ft. Which has greater **area**?

Answer: _____

8 A playground fence makes a **rectangle** with perimeter 40 ft. One side is 12 ft long. How long is the next **side**?

Answer: _____

9 Give the length and width of two **rectangles** with area 12 square ft.

Answer: _____

10 Can two **rectangles** have the same perimeter but different areas? Explain how you know.

Answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

Show What You Know

Explain perimeter and name polygons by their sides.

Task E

/4

Complete the map to show what perimeter means.

Definition (in my own words)

Characteristics

perimeter

Examples

16 in around a 6 in by 2 in rectangle

Non-examples

area inside a shape

Created with LessonDino.com · AI lesson planner with checkable sources

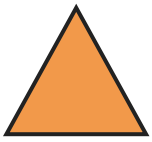
Perimeter Patrol

Task F

/12

Write the name and number of sides for each shape.

1



Name _____

Sides _____

2



Name _____

Sides _____

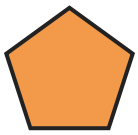
3



Name _____

Sides _____

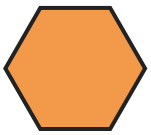
4



Name _____

Sides _____

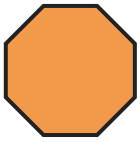
5



Name _____

Sides _____

6



Name _____

Sides _____

How did I do?

Circle a face for each line.

I can find the perimeter of a polygon by adding sides.

I can find a missing side length when I know the perimeter.

I can show rectangles with the same perimeter but different areas.

Created with LessonDino.com · AI lesson planner with checkable sources

Answer sheet: Perimeter Patrol

Task A

1. area = 12 in², perimeter = 16 in
2. area = 15 in², perimeter = 16 in
3. area = 16 in², perimeter = 16 in
4. perimeter = 20 in

Task B

1. 16 in
2. 12 in
3. 16 in
4. 12 in
5. 26 in
6. 5 ft
7. 7 in
8. 32 ft
9. 32 in
10. Perimeter measures the distance around, so it is 16 in. Square inches measure the area inside.

Task C

1. Step 1 is wrong: They added length + width only once. Opposite sides are equal, so add all four sides. Correct answer: 20 in
2. Step 1 is wrong: They found area by multiplying. For perimeter, add the four equal sides. Correct answer: 24 in
3. Step 1 is wrong: They counted the 6 in side twice. Count each side once around the shape. Correct answer: 17 in

---

Task D

1. 6 ft
2. 3 in
3. 9 ft
4. 24 ft
5. 24 ft
6. 32 square ft
7. Rectangle A
8. 8 ft
9. 6 ft by 2 ft and 4 ft by 3 ft
10. Yes. An 8 ft by 4 ft rectangle and a 10 ft by 2 ft rectangle both have perimeter 24 ft, but areas 32 square ft and 20 square ft.

Task E

Definition: The distance around the outside of a 2D shape.

Characteristics: Found by adding all side lengths, Measured in length units like inches and feet, Start and end at the same corner

Examples: 16 in around a 6 in by 2 in rectangle, 24 in around a 6 in square, fence around a garden

Non-examples: area inside a shape, square inches covering a shape, space on top of a desk

---

Task F

1. triangle: 3 sides, 3 corners
2. square: 4 sides, 4 corners
3. rectangle: 4 sides, 4 corners
4. pentagon: 5 sides, 5 corners
5. hexagon: 6 sides, 6 corners
6. octagon: 8 sides, 8 corners

Pictures: Pictograms: Sergio Palao, ARASAAC (arasaac.org) · CC BY-NC-SA; Characters: Open Peeps by Pablo Stanley (CC0)

Created with LessonDino.com · AI lesson planner with checkable sources