Name & Surname: _____ Class: _____ Date: _____

Measuring Perimeter

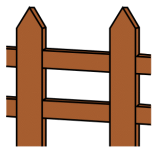
Add up all the sides!

About 45 minutes Level ★★★☆☆

What Is Perimeter?

Perimeter is the **distance** all the way round the **outside** of a 2-D shape.

- Start at one **corner** and walk all the way round back to the start.
- Measure each **side** in centimetres with a ruler.
- Add all the **sides** together. Give the answer in cm.

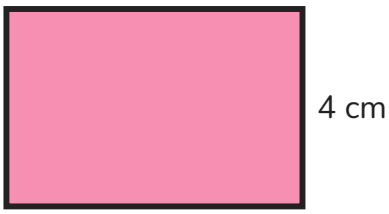


Task A

/3

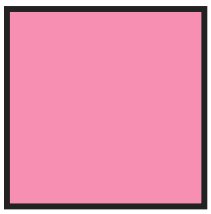
Find the perimeter of each shape. Add all the sides together.

1



Perimeter: _____ **cm**

2



Perimeter: _____ **cm**

3



Perimeter: _____ **cm**

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Add All Sides

Practise adding sides to find perimeters.

Key words

perimeter: distance round the outside of a shape

rectangle: shape with 4 sides and 4 right angles

centimetre: unit we use to measure length

side: one straight edge of a shape

square: shape with 4 equal sides and 4 right angles

Task B

/10

Add the sides to find each perimeter. Do not forget the units!

WARM UP

1 A square has sides of 3 cm. Find its **perimeter**.

Answer: _____

2 Add the **sides** 5 cm, 2 cm, 5 cm and 2 cm. What is the **perimeter**?

Answer: _____

3 A triangle has sides 4 cm, 5 cm and 6 cm. Find the **perimeter**.

Answer: _____

4 A rectangle is 6 cm long and 4 cm wide. Find its **perimeter**.

Answer: _____

PRACTISE

5 A rectangle is 10 cm by 4 cm. Work out its **perimeter** using **addition**.

Answer: _____

6 A square has a **perimeter** of 20 cm. How long is each **side**?

Answer: _____

7 Which has the greater **perimeter**: a 6 cm **square** or a 9 cm by 5 cm rectangle? Write square or rectangle.

Answer: _____

PROBLEM SOLVING

8 A book cover is a **rectangle** 20 cm by 15 cm. Ribbon goes all round the **edge**. How much ribbon is needed?

Answer: _____

9 A **square** picture frame has sides of 9 cm. Find the **perimeter** of wood needed.

Answer: _____

10 Explain how you know you have found the **perimeter** and not the **area**.

Answer: _____

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Spot the Mistake

Find where the working went wrong and fix it.

Task C

/4

Find the wrong step in each piece of working. Explain and correct it.



Student A

Work out the **perimeter** of a rectangle 5 cm by 3 cm.

1. 5 + 3 + 5 + 3
2. = 8 + 8
3. = 16
4. So the answer is 16 cm²

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Work out the **perimeter** of a rectangle 7 cm by 2 cm.

1. 7 + 2
2. = 9
3. So the answer is 9 cm

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

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Perimeter Problems

Solve trickier perimeter puzzles and word problems.

Task D

/10

Work out each perimeter. Watch for tricky bits and show adding!

WARM UP

1 A square has sides of 4 cm. Find its **perimeter**.

Answer: _____

2 A rectangle is 7 cm long and 3 cm wide. Find its **perimeter**.

Answer: _____

3 A triangle has three sides of 5 cm. Find its **perimeter**.

Answer: _____

4 Add 8 cm, 6 cm, 8 cm and 6 cm to find the **perimeter**.

Answer: _____

PRACTISE

5 A whiteboard plan is a **rectangle** 12 cm by 5 cm. Find its **perimeter**.

Answer: _____

6 A square has a **perimeter** of 28 cm. How long is one **side**?

Answer: _____

7 A 5 cm **square** has a perimeter of 20 cm. A triangle has sides 7 cm, 7 cm and 8 cm. Which **perimeter** is greater? Write square or triangle.

Answer: _____

PROBLEM SOLVING

8 A **garden** is a rectangle 15 m by 10 m. Fencing goes round the **edge**. How much fencing is needed?

Answer: _____

9 A **square** sandpit plan has sides of 11 cm. String goes round the **outside**. How much string is needed?

Answer: _____

10 A student says two different shapes cannot have the same **perimeter**. Are they right? Explain **why**.

Answer: _____

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Know Your Shapes

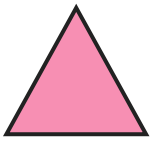
Name shapes and show what perimeter means.

Task E

/12

Write the name, number of sides and corners for each shape.

1



Name _____

Sides _____

Corners _____

2



Name _____

Sides _____

Corners _____

3

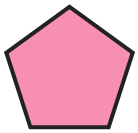


Name _____

Sides _____

Corners _____

4



Name _____

Sides _____

Corners _____

Task F

/4

Complete the word map to show what perimeter really means.

Definition (in my own words)

Characteristics

perimeter

Examples

fence round a garden

Non-examples

space inside a shape

How did I do?

Circle a face for each line.

I can explain what perimeter means.	☹	😐	☺
I can measure sides and add them to find the perimeter.	☹	😐	☺
I can find the perimeter of squares, rectangles and triangles.	☹	😐	☺

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Answer sheet: Measuring Perimeter

Task A

1. perimeter = 20 cm
2. perimeter = 20 cm
3. perimeter = 22 cm

Task B

1. 12 cm
2. 14 cm
3. 15 cm
4. 20 cm
5. 28 cm
6. 5 cm
7. rectangle
8. 70 cm
9. 36 cm
10. I added all the sides round the outside instead of counting the space inside.

Task C

1. Step 4 is wrong: They used square centimetres for a length. Perimeter is measured in centimetres, not square units. Correct answer: 16 cm
2. Step 1 is wrong: They added only two sides. A rectangle has four sides, so add them all. Correct answer: 18 cm

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Task D

1. 16 cm
2. 20 cm
3. 15 cm
4. 28 cm
5. 34 cm
6. 7 cm
7. triangle
8. 50 m
9. 44 cm
10. No, different shapes can have the same perimeter, for example a 5 cm square and a 7 cm by 3 cm rectangle both have a perimeter of 20 cm.

Task E

1. triangle: 3 sides, 3 corners
2. square: 4 sides, 4 corners
3. rectangle: 4 sides, 4 corners
4. pentagon: 5 sides, 5 corners

Task F

Definition: The distance all the way round the outside of a 2-D shape.

Characteristics: goes all the way round a shape, found by adding all sides, measured in centimetres or metres

Examples: fence round a garden, frame round a picture, ribbon round a book cover

Non-examples: space inside a shape, colour or pattern of a shape, number of corners in a shape

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