

Year 2/3 – Spring Block 4 – Length, Height and Perimeter – Step 8

About This Resource:

This PowerPoint has been designed to support your teaching of this small step from the Mixed Age planning. It includes a starter activity suitable for each year group and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack (separate for each year group). Each slide has the year group identified in the bottom right-hand corner. We recommend that you look through this PowerPoint in advance and decide whether to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 3: (3M7) [Measure the perimeter of simple 2-D shapes](#)

More [Year 2 and Year 3 Length, Height and Perimeter](#) resources.

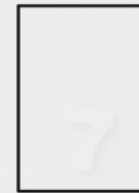
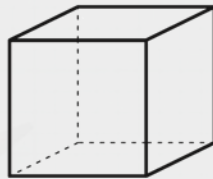
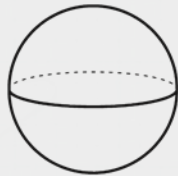
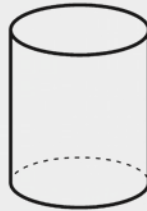
Did you like this resource? Don't forget to [review](#) it on our website.

Step 8

Year 3: Measure Perimeter

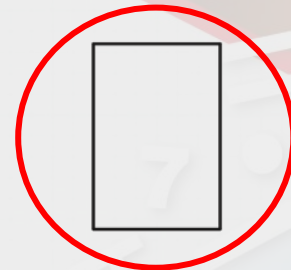
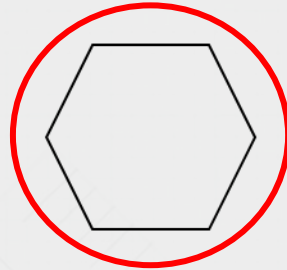
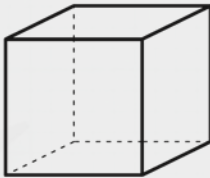
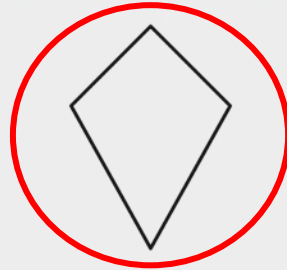
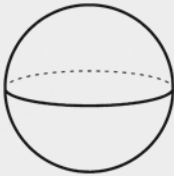
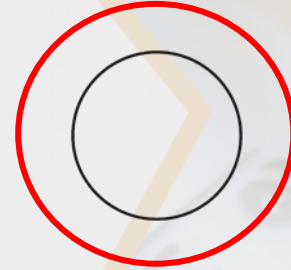
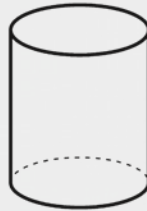
Introduction

Circle the 2D shapes below.



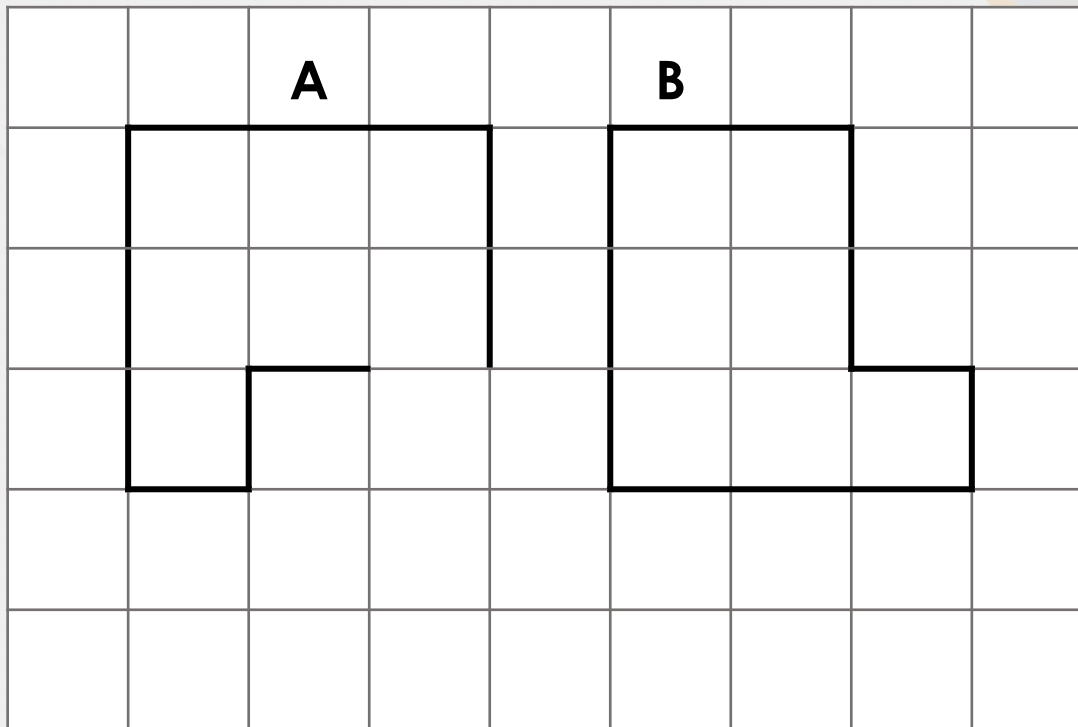
Introduction

Circle the 2D shapes below.



Varied Fluency 1

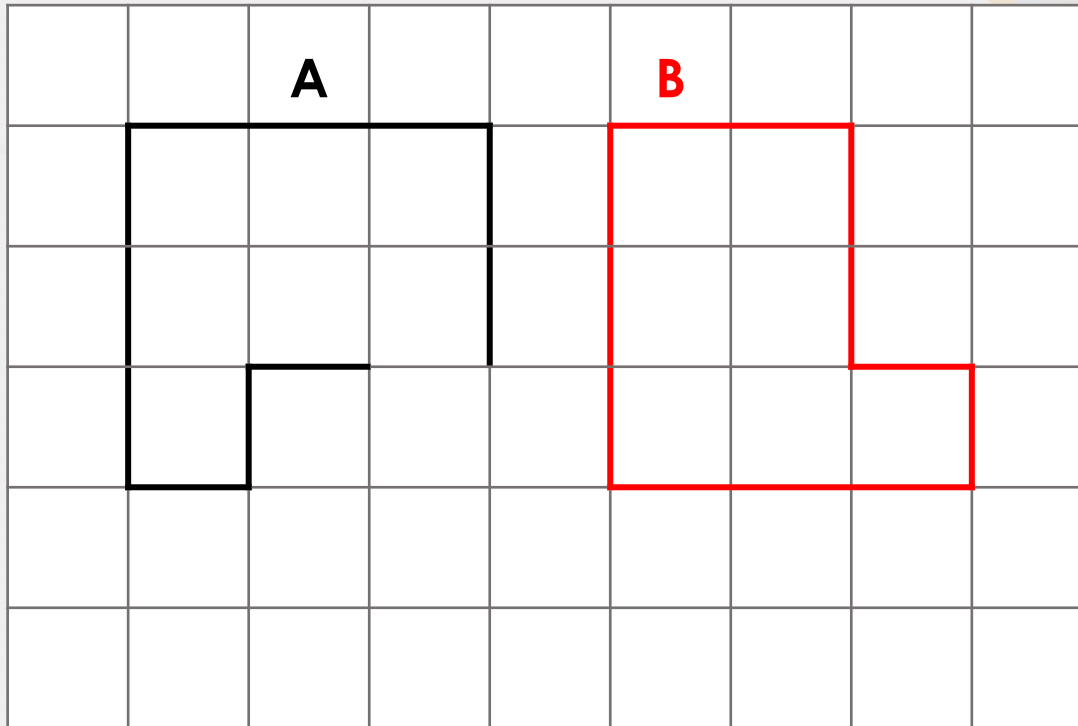
Which shape has a complete perimeter of 12cm?



cm squares not to scale

Varied Fluency 1

Which shape has a complete perimeter of 12cm?

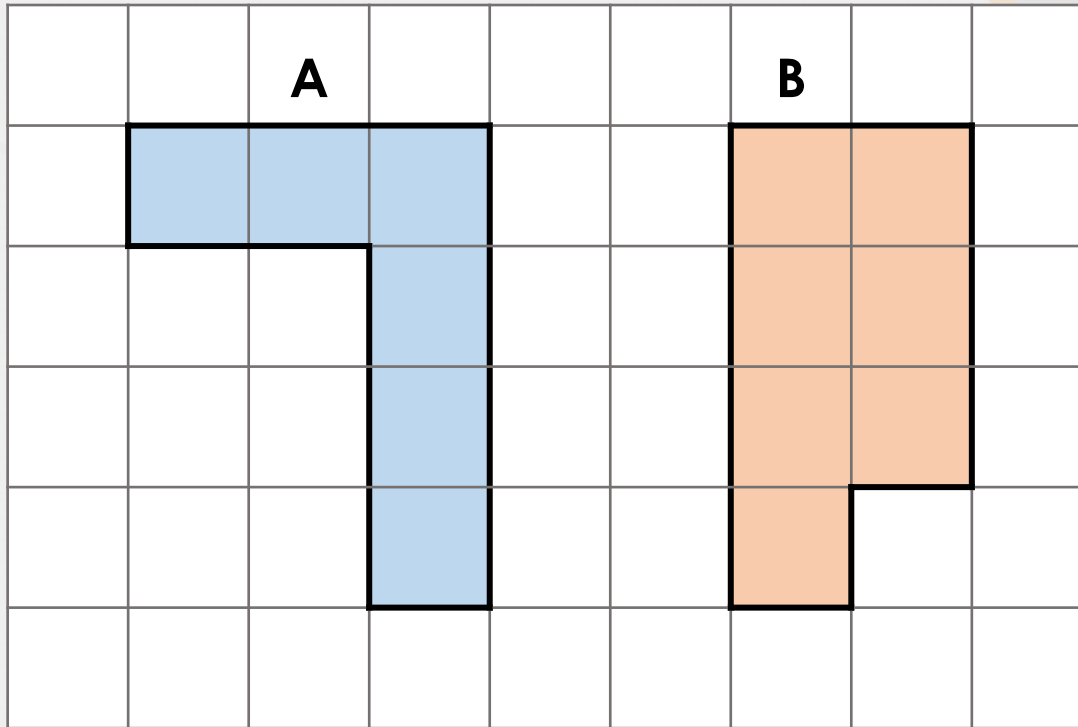


cm squares not to scale

Y3

Varied Fluency 2

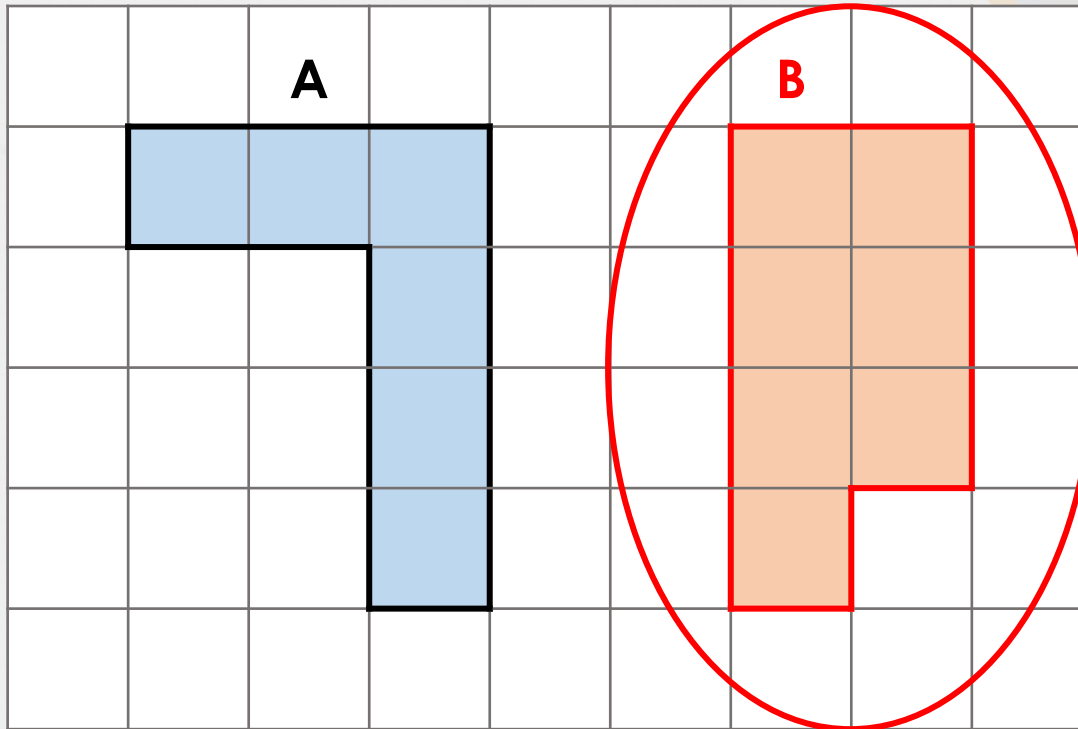
Circle the shape with the shortest perimeter.



cm squares not to scale

Varied Fluency 2

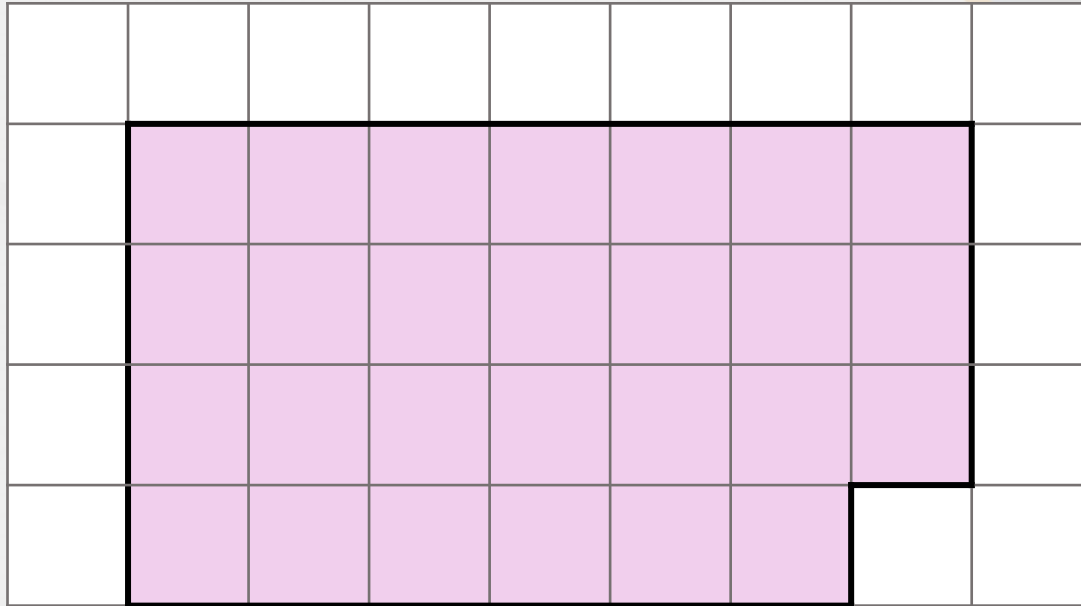
Circle the shape with the shortest perimeter.



cm squares not to scale

Varied Fluency 3

Find the perimeter of the shape below.

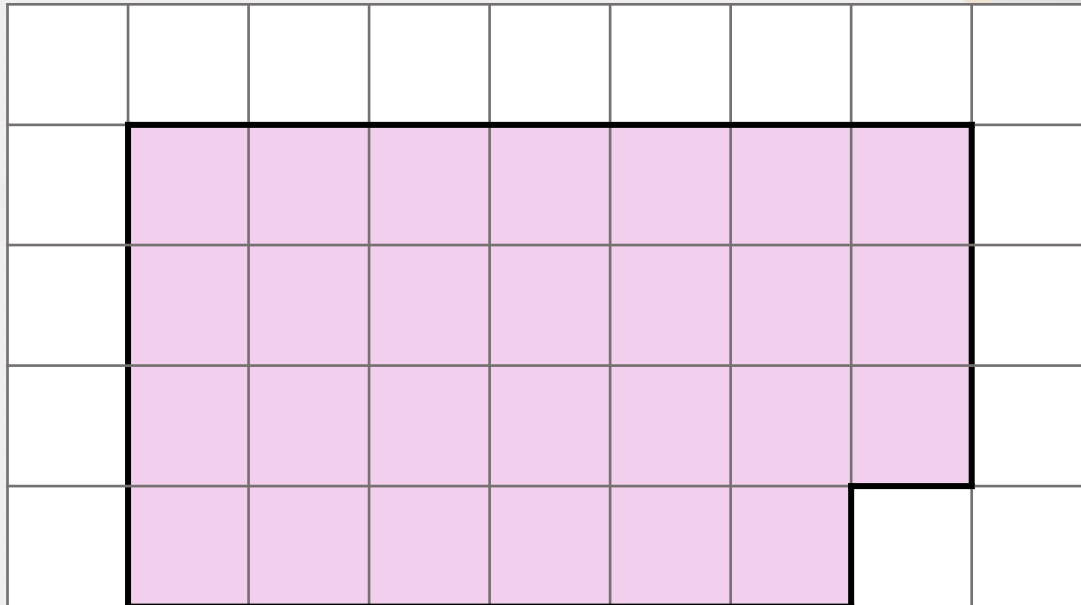


The perimeter is cm.

cm squares not to scale

Varied Fluency 3

Find the perimeter of the shape below.

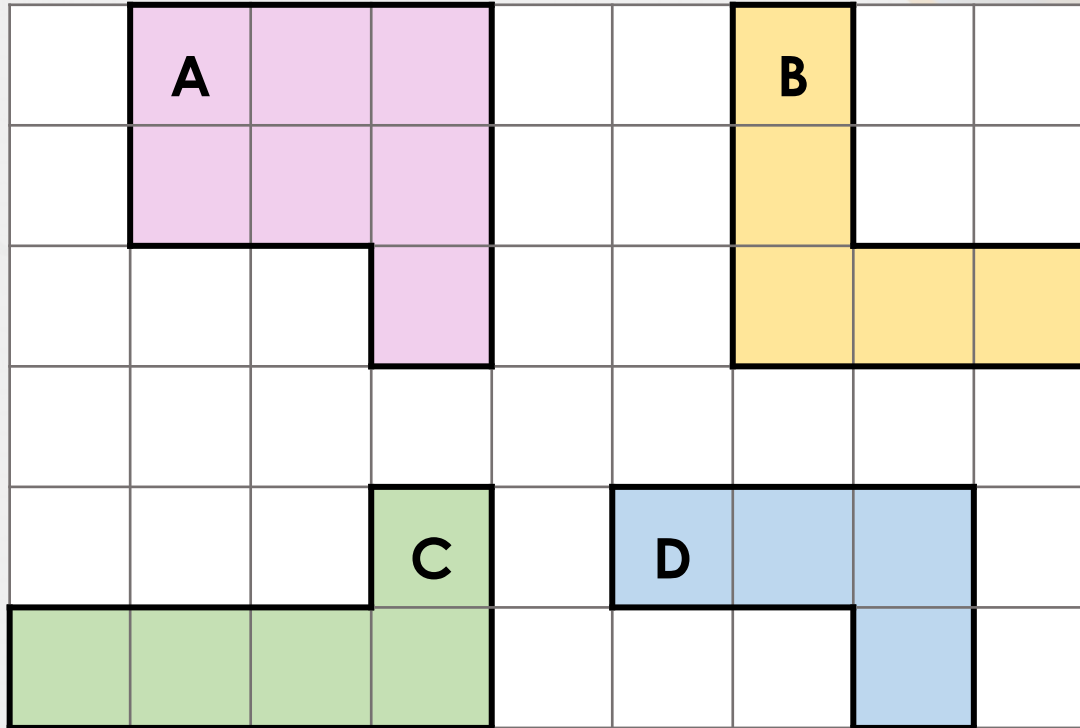


The perimeter is **22** cm.

cm squares not to scale

Reasoning 1

Circle the odd one out.

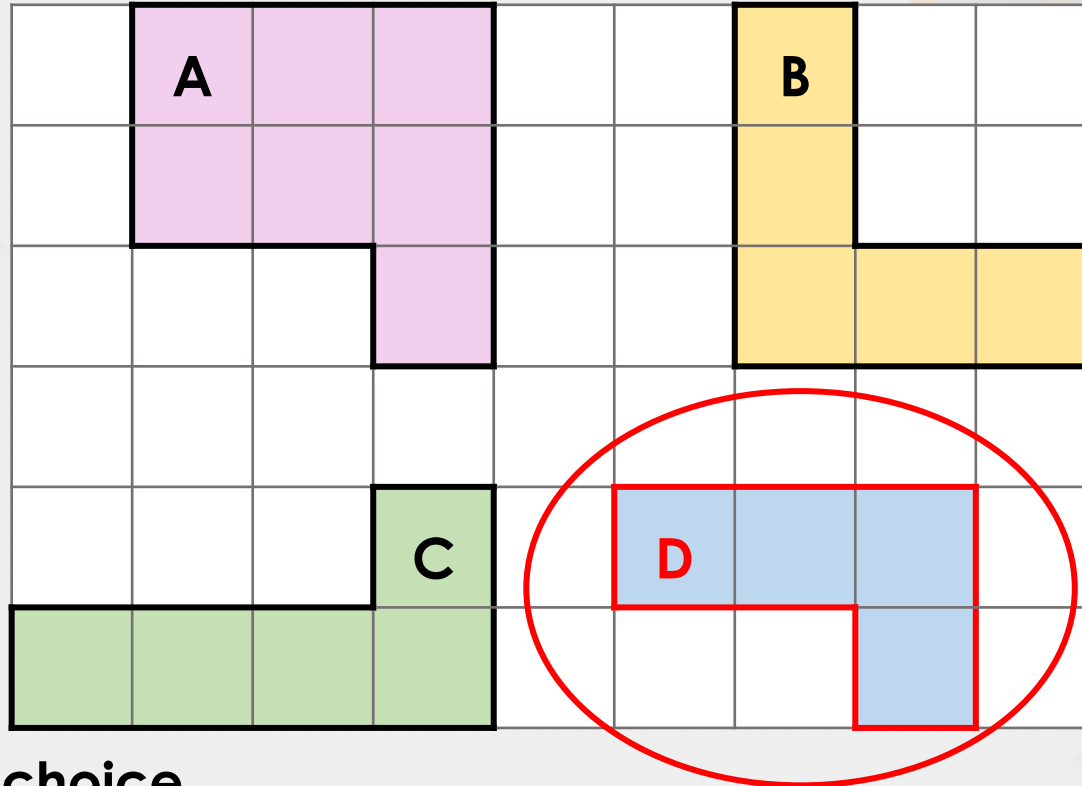


Explain your choice.

cm squares not to scale

Reasoning 1

Circle the odd one out.



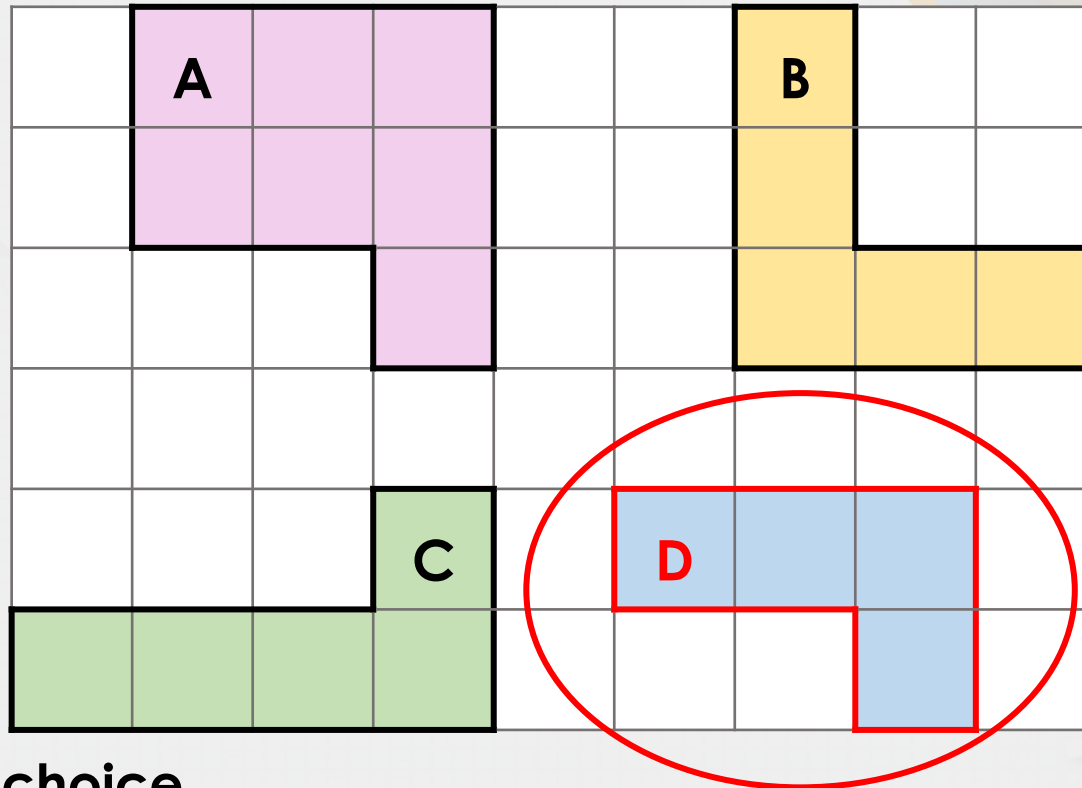
Explain your choice.

D is the odd one out because...

cm squares not to scale

Reasoning 1

Circle the odd one out.



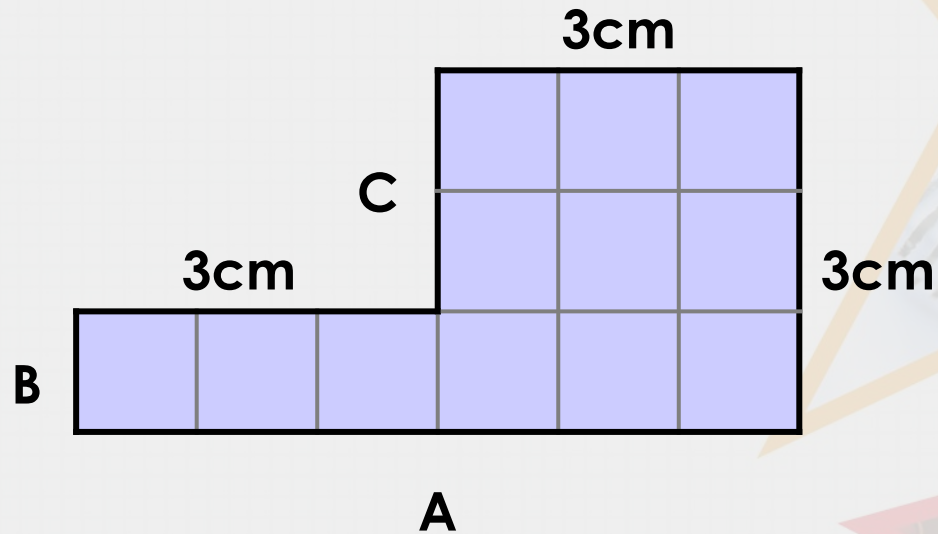
Explain your choice.

D is the odd one out because the other shapes have a 12cm perimeter but D has a 10cm perimeter.

cm squares not to scale

Problem Solving 1

The perimeter of the shape below is 18cm.

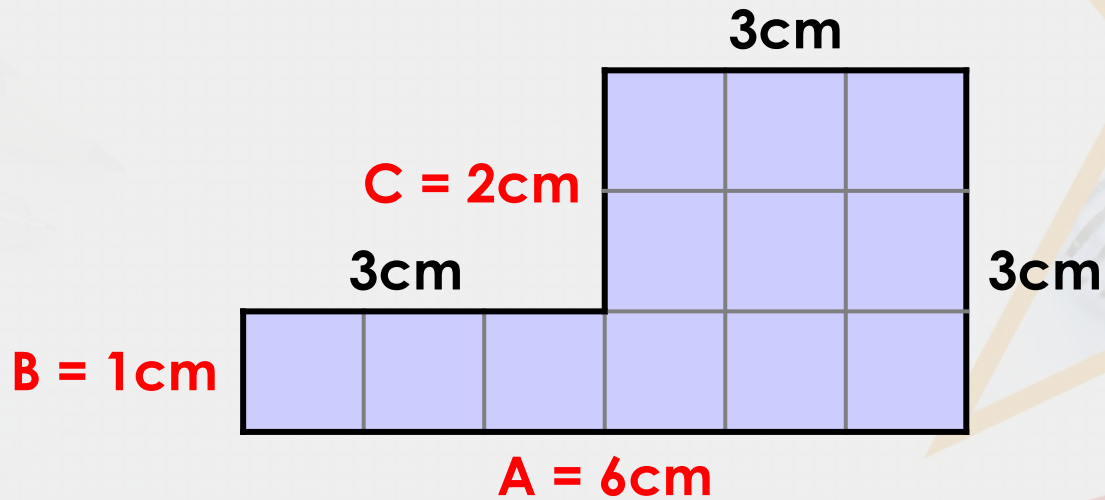


How long are the missing sides?

cm squares not to scale

Problem Solving 1

The perimeter of the shape below is 18cm.

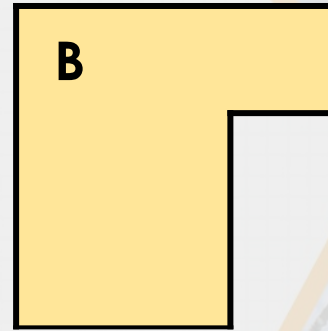
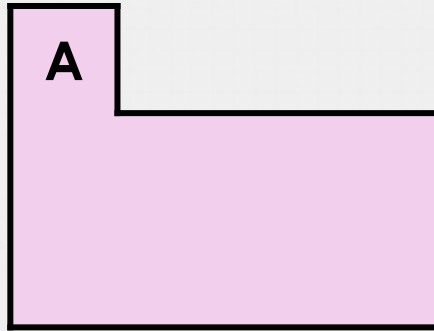


How long are the missing sides?

cm squares not to scale

Reasoning 2

Tim and Jenny each draw a shape.



The measurements for Tim's shape are:
3cm, 1cm, 1cm, 2cm, 2cm, 3cm.

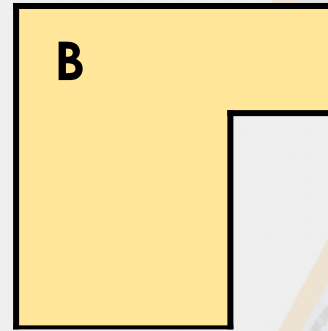
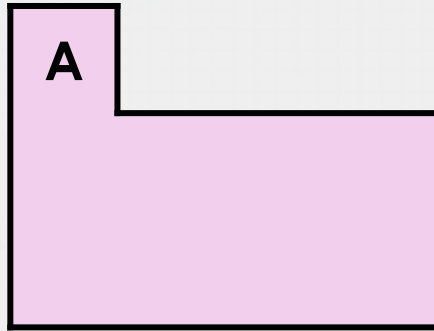
The measurements for Jenny's shape are:
1cm, 1cm, 3cm, 2cm, 4cm, 3cm.

Which shape did they each draw? Convince me.

cm squares not to scale

Reasoning 2

Tim and Jenny each draw a shape.



The measurements for Tim's shape are:
3cm, 1cm, 1cm, 2cm, 2cm, 3cm.

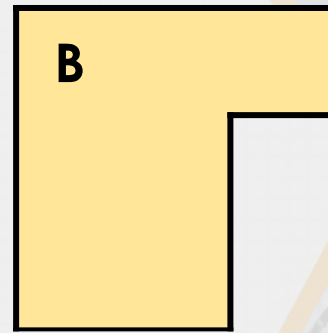
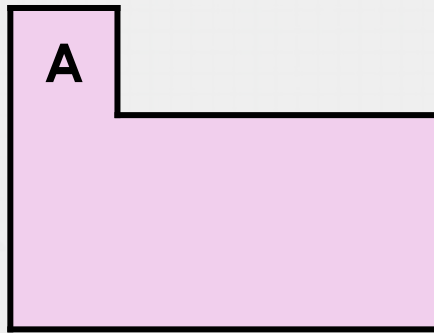
The measurements for Jenny's shape are:
1cm, 1cm, 3cm, 2cm, 4cm, 3cm.

Which shape did they each draw? Convince me.
Jenny drew A and Tim drew B because...

cm squares not to scale

Reasoning 2

Tim and Jenny each draw a shape.



The measurements for Tim's shape are:
3cm, 1cm, 1cm, 2cm, 2cm, 3cm.

The measurements for Jenny's shape are:
1cm, 1cm, 3cm, 2cm, 4cm, 3cm.

Which shape did they each draw? Convince me.

Jenny drew A and Tim drew B because Jenny's measurements give a 14cm perimeter and Tim's give a 12cm perimeter. A has a longer perimeter than B.

cm squares not to scale