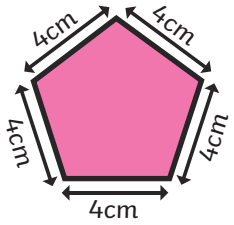
Perimeter of Regular Polygons

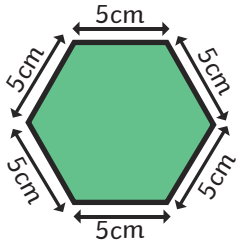
1) Calculate the perimeter of each regular polygon.

All images are not drawn to scale.

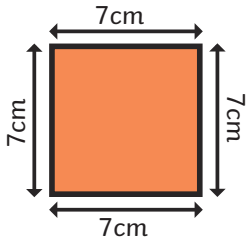
a)



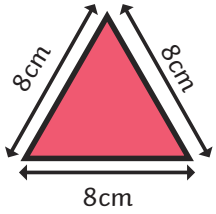
b)



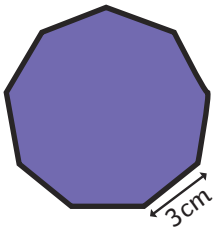
c)



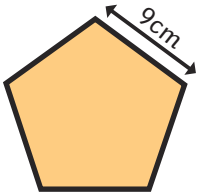
d)



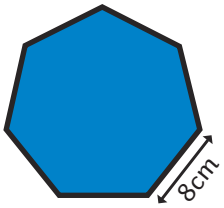
e)



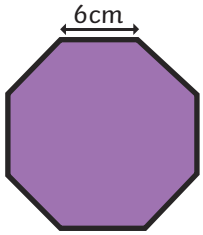
f)



g)



h)



2) Whose shape has the smaller perimeter?

Scan here for help!

Perimeter of Regular Polygons

1) Calculate the perimeter of each regular polygon.

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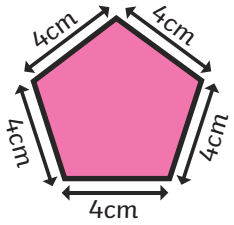
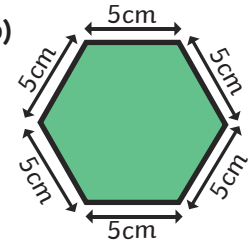
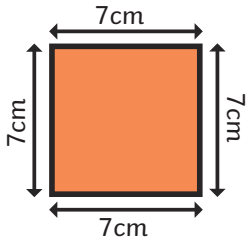


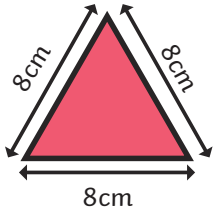
b)



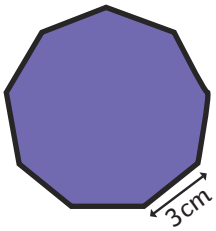
c)



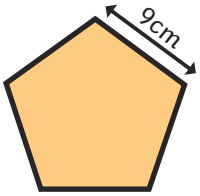
d)



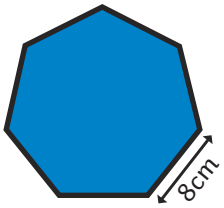
e)



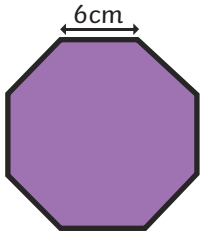
f)



g)



h)



2) Whose shape has the smaller perimeter?

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Perimeter of Regular Polygons

1) Are Abi and Zeke correct? Prove it.

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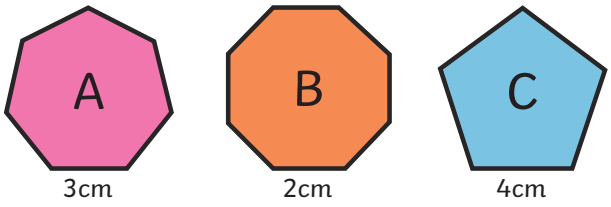
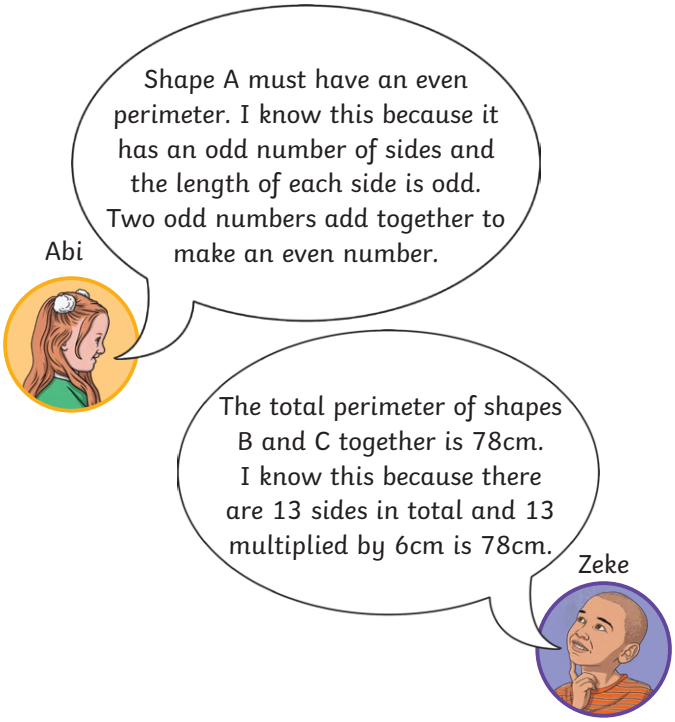
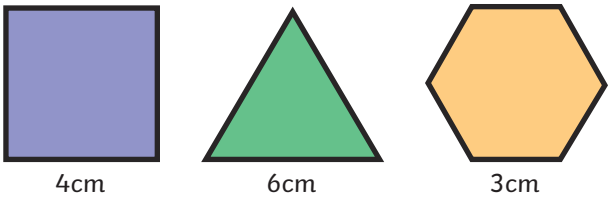
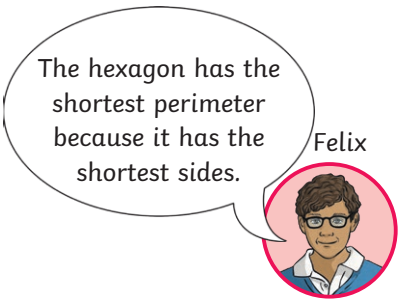


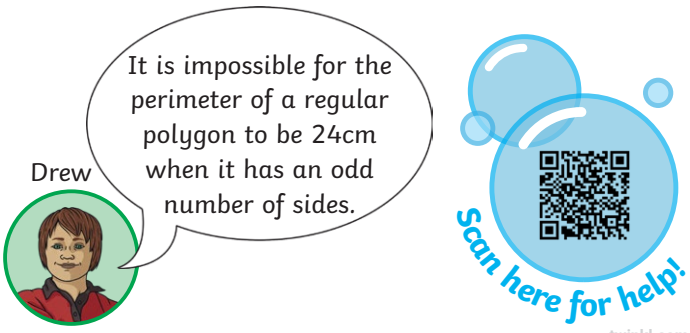


2) Do you agree with Felix? Explain how you know.





3) Do you agree with Drew? Explain your reasoning.



Perimeter of Regular Polygons

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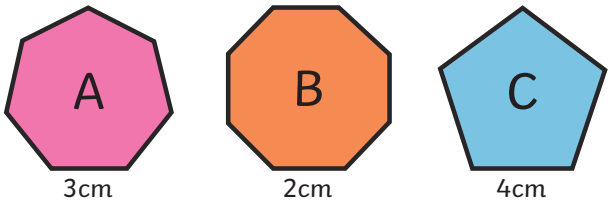

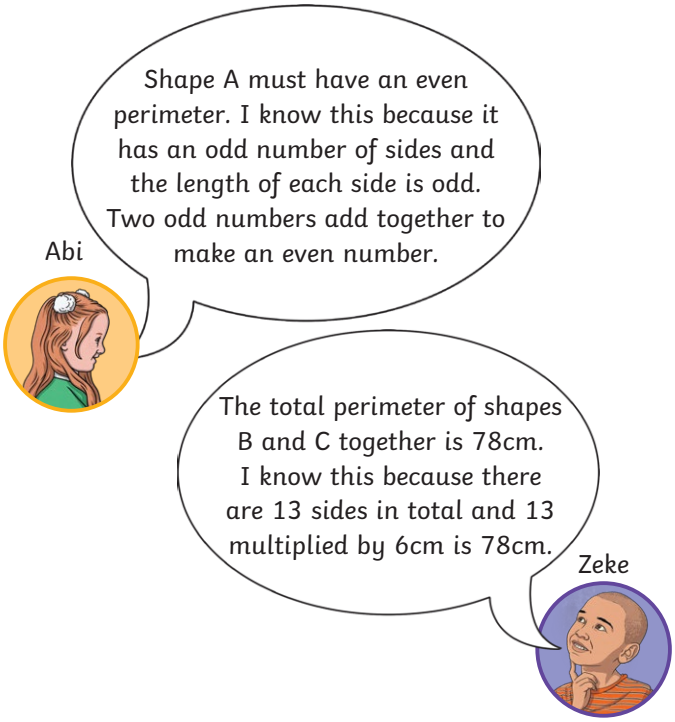

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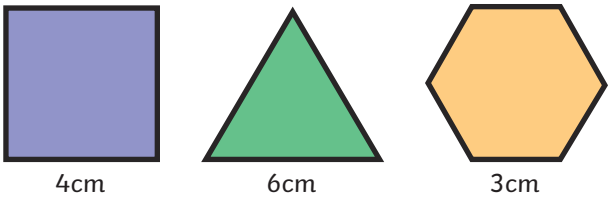

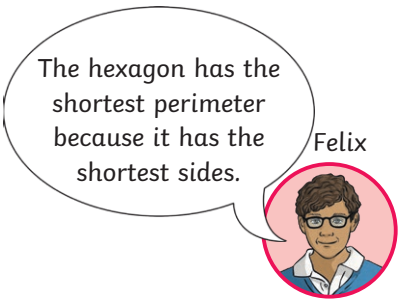

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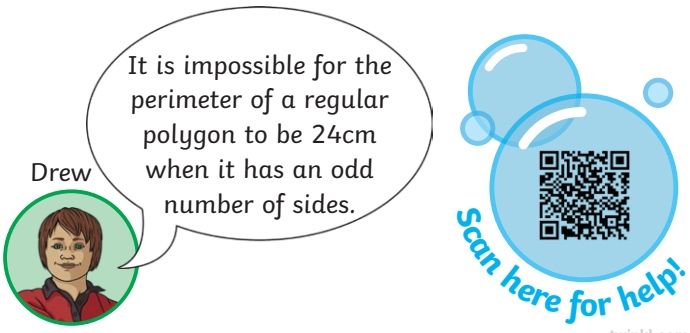

Perimeter of Regular Polygons

1) Solve these problems.

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a)

Abi

I have drawn a square with sides that are 12cm long.
The perimeter is 48cm.
What three other regular polygons with side lengths that are whole centimetres can I draw that also have a perimeter of 48cm?

b)

I have drawn three regular polygons with side lengths that are whole centimetres.
Each one has less than ten sides. The perimeter of each shape is 36cm.
What regular polygons could I have drawn?

Elias

c)

I have drawn four different regular polygons with side lengths that are whole centimetres.
When I add all the perimeters together, the total is 100cm.
What could the four shapes be?
What would the side lengths of each shape be?

Emily

2) Use the clues to identify the name and the side lengths of this regular polygon.

The perimeter is between 40 and 50cm.

The length of each side is an odd number between 6 and 10cm.

The number of sides is equal to the length of each side.

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