

12.06.2020

LK: To draw shapes with a given perimeter or area

Hello everybody! Miss Dattani here, I hope you are all safe and well.

You do not need a printer to complete any tasks, please do your task on pen and paper and email me if you have any questions at [WDV.year5@oasiswoodview.org](mailto:WDV.year5@oasiswoodview.org)

Your task is differentiated two ways:

-Section A is suited for one star (blue and green)

-Section B is suited for two and three star (yellow, orange and red table)

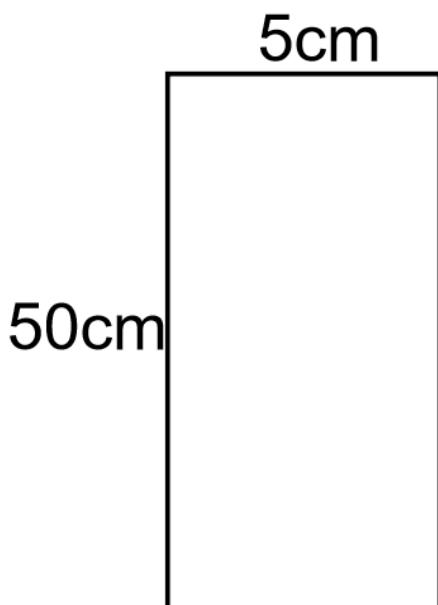
Now that we have revised perimeter and area, today you will have a go at drawing shapes with given perimeters and areas. You will need a ruler for this activity.

Below are examples

Draw a rectangle with a perimeter of 110cm

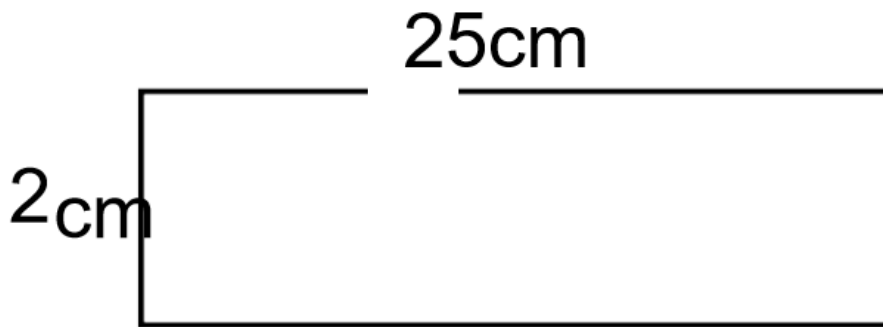
I know that  $50+50=100$  so I will draw my rectangle 50 cm long.

Now I will do  $110-100$  to work out my remaining centimetres. I have 10cm left so I know the width would have to be 5cm.



Draw a rectangle with an area of  $50\text{cm}^2$ .

All I need to know here are my factors of 50. I know that  $25 \times 2 = 50$  so I can use that to decide on the length and width of my rectangle.



Use a ruler to draw your shapes.

Section A

Draw a rectangle with a perimeter of:

- 1) 16 cm
- 2) 24cm
- 3) 30cm
- 4) 36cm

Draw a rectangle with the area of:

- 1)  $20\text{cm}^2$
- 2)  $28\text{cm}^2$
- 3)  $18\text{cm}^2$
- 4)  $24\text{cm}^2$

Section B

Draw a rectangle with the perimeter of:

1) 24cm

2) 48cm

3) 56cm

4) 78cm

Draw a rectangle with an area of:

1)  $125\text{cm}^2$

2)  $180\text{cm}^2$

3)  $135\text{ cm}^2$

4)  $286\text{cm}^2$

Can you draw a shape that has the same perimeter and area? How many can you find?