Plan problems

Mathematics
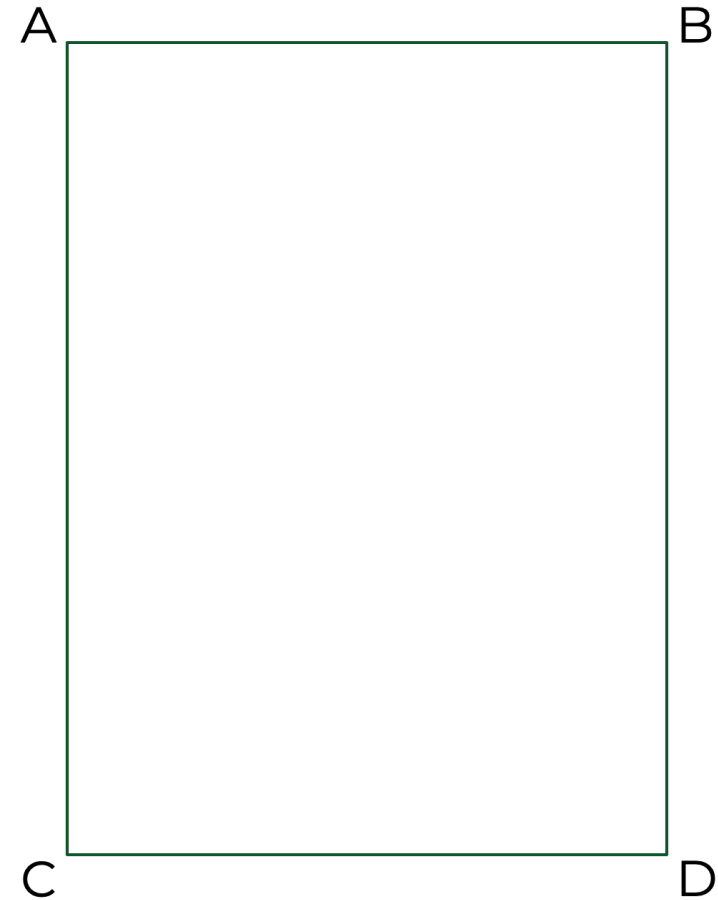
Mr Maseko

Try this

Draw a rectangle and label the corners A, B, C, D clockwise, as in the diagram to the right.
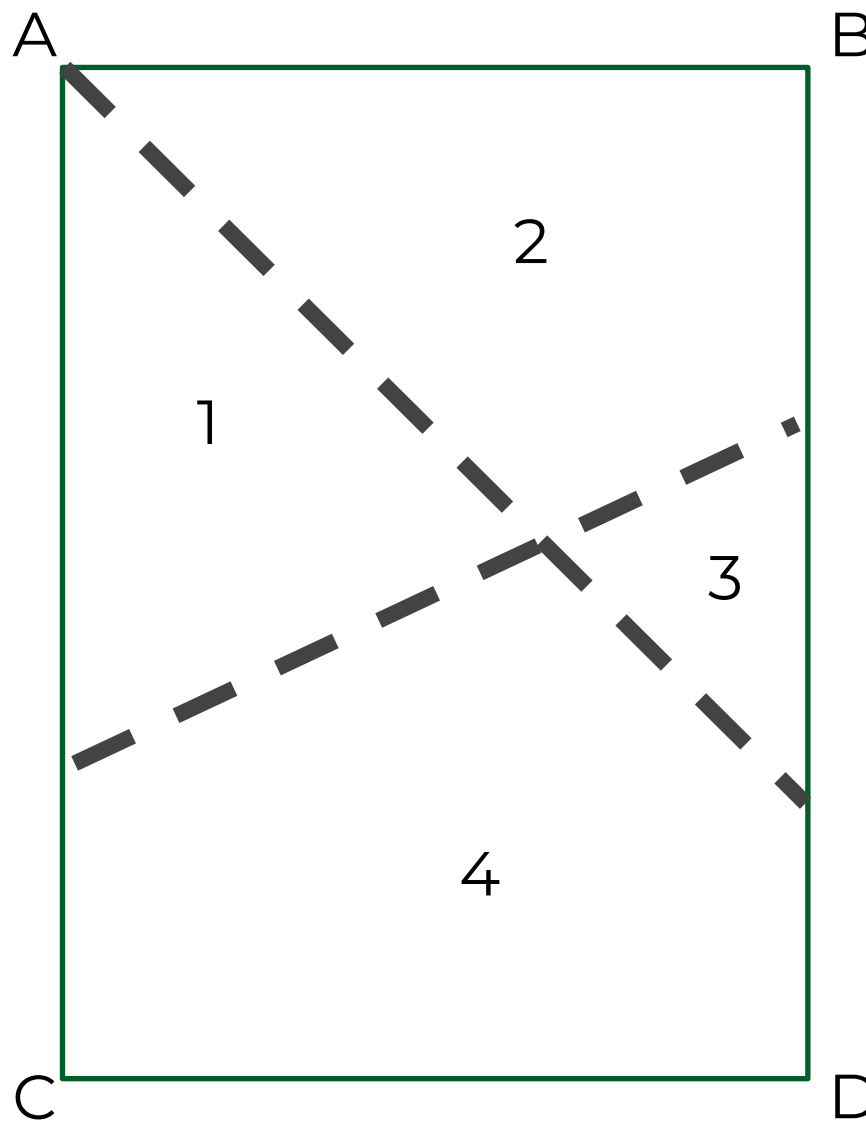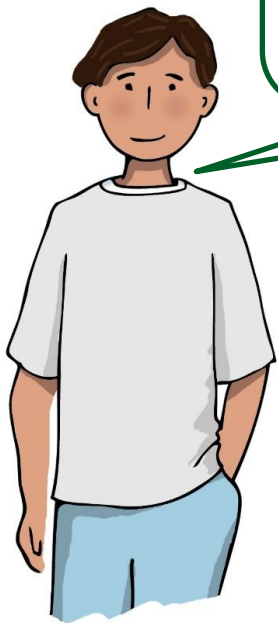
1) Bisect the angle BAC.

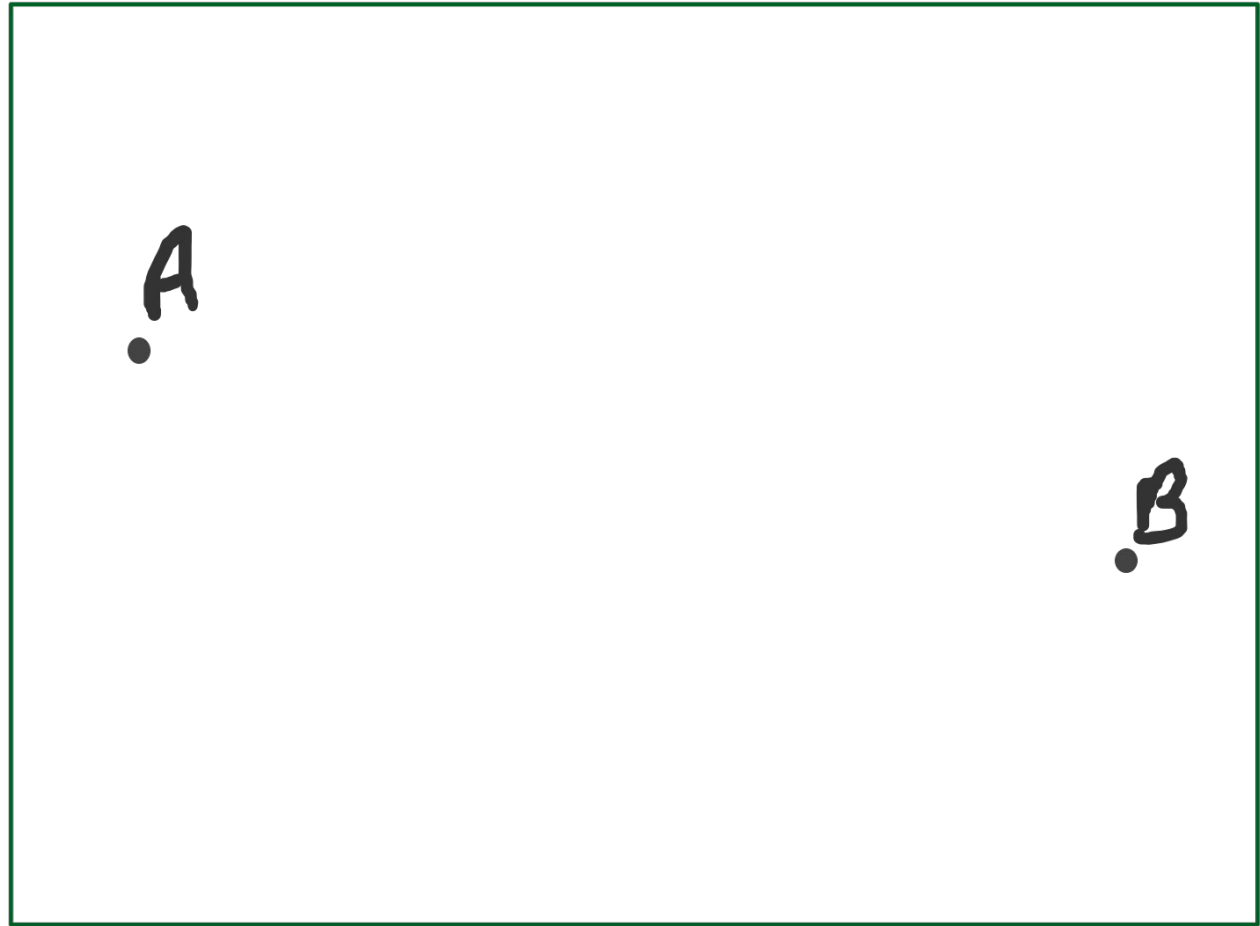2) Find the perpendicular bisector of AD.

A
B

C
D

Connect

You should now have 4 regions on your page. What statements can you make about those regions?

Any point in region 1 is closer to A than D, and it is closer to AC than AB
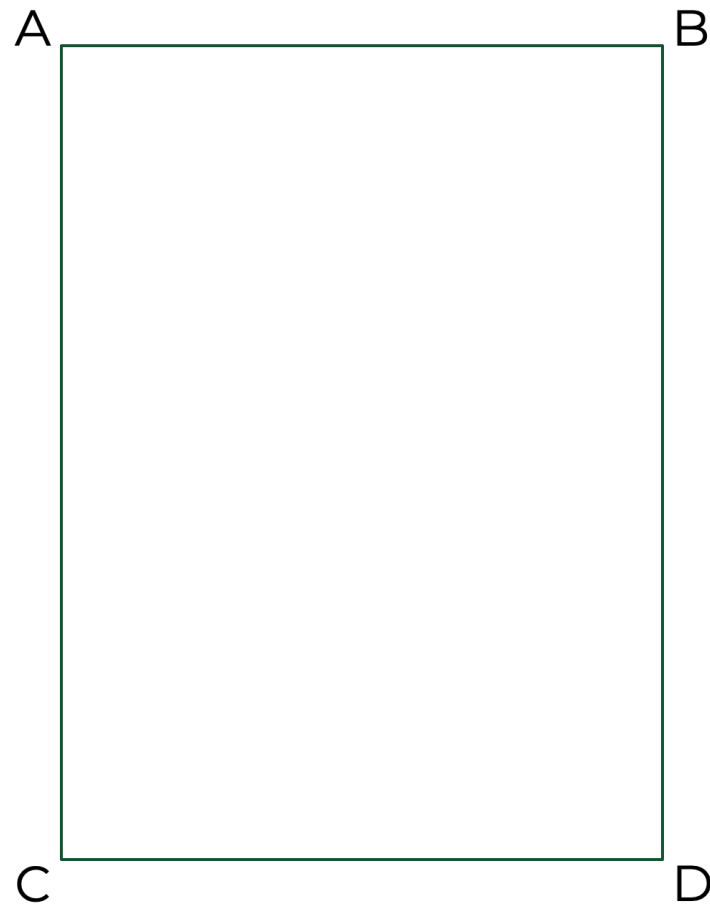
Connect

Draw two points on a piece of paper and shade in the region that is closer to A than B.
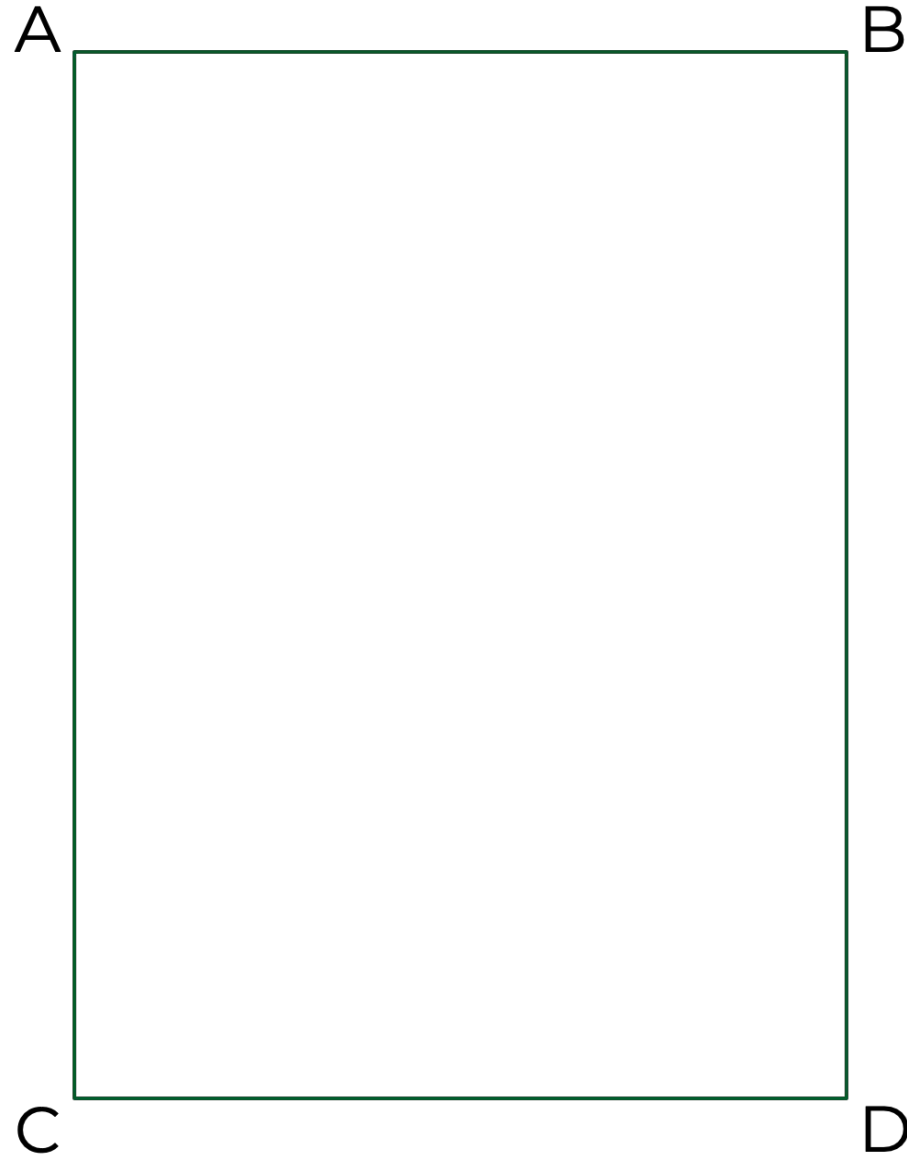
Connect

Shade in the region that is closer to AB than AC.

A ⌐————————————————⌐ B

C └————————————————┘ D

Independent task

Shade in the region that is both closer to D than C and closer to CD than BD.

A   B

C   D

Explore

Yasmin is planning her garden:

1) Everything that is closer to CD than AC will be a flower bed

2) Everything within 3 metres of A will be gravel

3) The rest will be grass

What shape will the gravel, and flower bed be? What areas can you find?

I can find the area of my full garden.

I can find the gravelled area.

I can find the grassed area.

A   4 metres   B

10 metres

C   D