



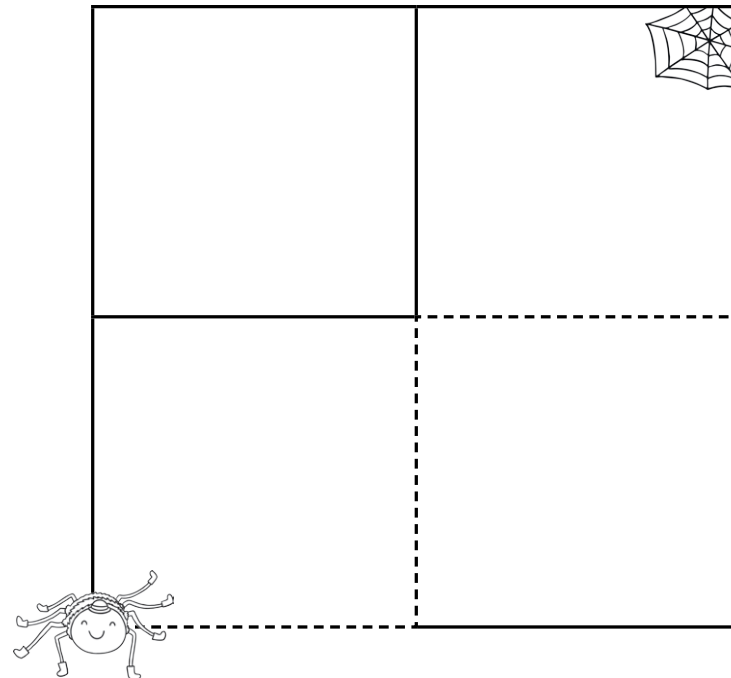
Incy Wincy Spider

I can describe position, direction and movement.



Incy Wincy Spider needs to get to her web in 4 moves.

She first did it like this: **Right, Up, Right, Up.**



Find 5 other ways that Incy Wincy can take to get to her web. Can you record your routes?



Incy Wincy Spider **Solutions**

(Incy Wincy)

Up, Up, Right, Right

Up, Right, Up, Right

Up, Right, Right, Up

Right, Up, Right, Up (as shown)

Right, Up, Up, Right

Right, Right, Up, Up



Incy Wincy Spider

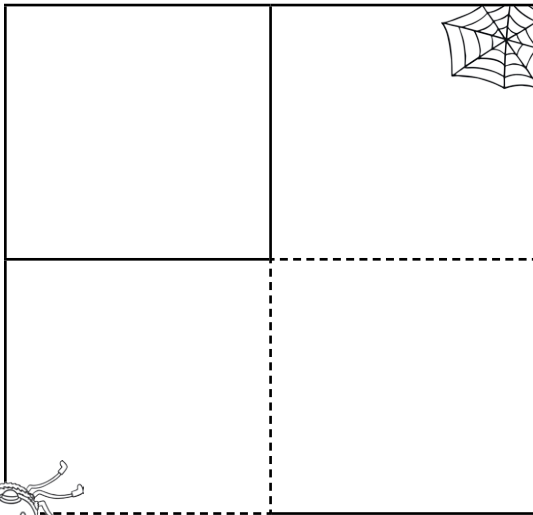
I can describe position, direction and movement.



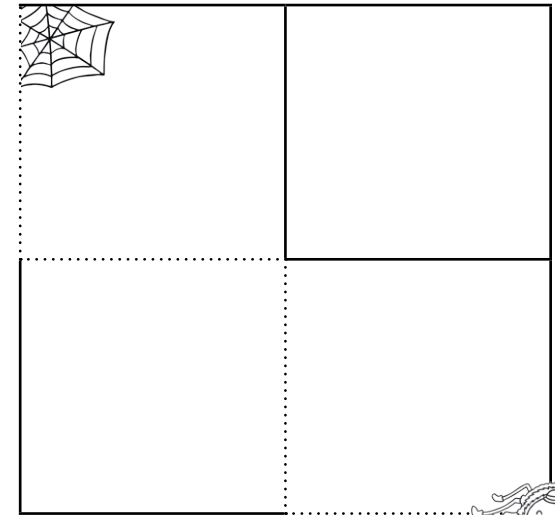
Incy Wincy Spider and her friend need to get to their webs in 4 moves.

Incy Wincy first did it like this: **Right, Up, Right, Up.**

Her friend first did it like this: **Left, Up, Left, Up.**



Find 5 other ways that Incy Wincy and her friend can take to get to their webs. Can you record your routes?



How many routes would there be if the spiders always had to change direction each time and could not go Left, Left, Right, Right or Up, Up?



Incy Wincy Spider **Solutions**

(Incy Wincy)

Up, Up, Right, Right

Up, Right, Up, Right

Up, Right, Right, Up

Right, Up, Right, Up (as shown)

Right, Up, Up, Right

Right, Right, Up, Up

(Incy Wincy's Friend)

Up, Up, Left, Left

Up, Left, Up, Left

Up, Left, Left, Up

Left, Up, Left, Up (as shown)

Left, Up, Up, Left

Left, Left, Up, Up

Extension Question

There would be two routes possible if the spider always had to change direction for each move.



Incy Wincy Spider

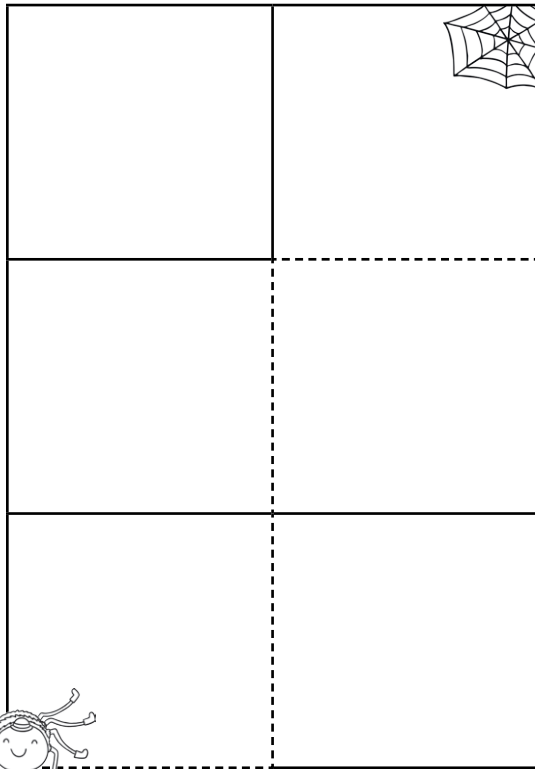
I can describe position, direction and movement.



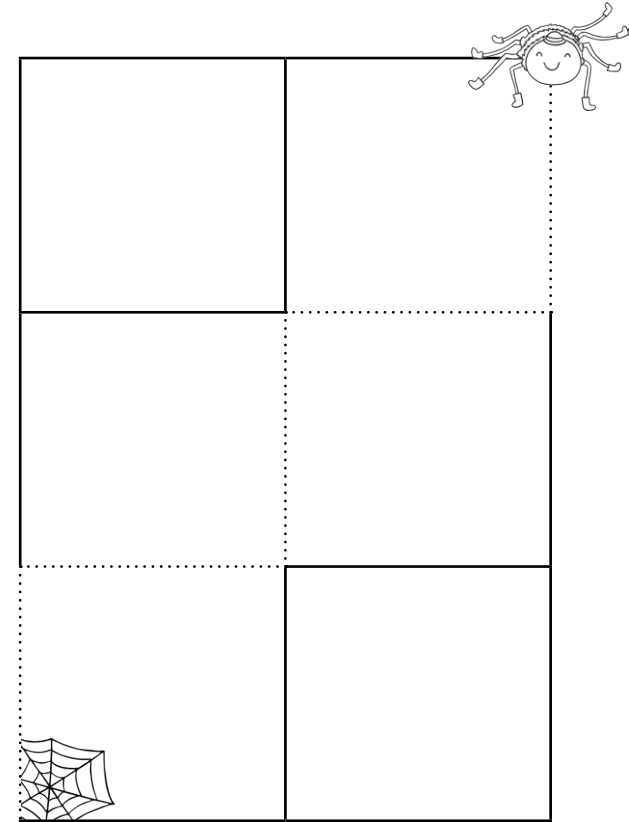
Incy Wincy Spider and her friend need to get to their webs in 5 moves.

Incy Wincy first did it like this: **Right, Up, Up, Right, Up.**

Her friend first did it like this: **Down, Left, Down, Left, Down.**



Find 9 other ways that Incy Wincy and her friend can take to get to their webs. Can you record your routes?





Incy Wincy Spider **Solutions**

(Incy Wincy)

Up, Up, Up, Right, Right
Right, Right, Up, Up, Up
Up, Right, Up, Right, Up
Up, Right, Right, Up, Up
Right, Up, Right, Up, Up
Right, Up, Up, Right, Up (as shown)
Right, Up, Up, Up, Right
Up, Up, Right, Up, Right
Up, Up, Right, Right, Up
Up, Right, Up, Up, Right

Extension Question

There would be only one route possible if the spider always had to change direction for each move.

(Incy Wincy's Friend)

Down, Down, Down, Left, Left
Left, Left, Down, Down, Down
Down, Left, Down, Left, Down (as shown)
Down, Left, Left, Down, Down
Left, Down, Left, Down, Down
Left, Down, Down, Left, Down
Down, Down, Left, Down, Left
Down, Down, Left, Left, Down
Down, Left, Down, Down, Left