

Activity Card 13

The Three Little Pigs

- Peppa, Percy and Peter, the Three Little Pigs, have just bought six new living spaces. They are square and can be connected to make a house for them to live in together.



- Percy is the eldest and says that he should have more than either of the others. Peppa says that she has a lot of clothes and will need more than one. Peter says that he doesn't mind how many he has.
- Can you use six plastic building cubes to solve the problem of how many each of them will have? When you have finished, use red cubes for Percy's spaces, blue cubes for Peppa's spaces and yellow cubes for Peter's spaces.
- Peppa then suggests that it will be safer if her spaces are joined to Peter's **and** Percy's in case the wolf attacks. Then she will have two escape routes. They agree that each of them should be able to escape into each other's spaces.
- Here is one possible arrangement:

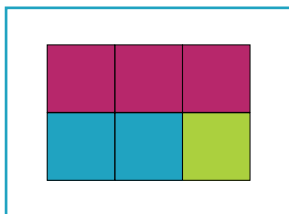


There are two other ways for them to arrange the spaces so that each of them has two escape routes. Can you use plastic building cubes to build them?

- Could you use LOGO to draw the three possible arrangements or plans for the spaces?
- You can use the **repeat** command to draw a square:

repeat 4[forward 60 right 90]

- Think carefully about where to draw the first square to make sure that you do not have to move the turtle too much between each square. (**Hint: Look at the Build a Square activity again.**)



The pigs decide that they would be even safer if they had a fence built around their new home to protect them from the wolf.

Could you use Logo to help them to draw a **'wolf-proof'** fence around each of their plans?

You will need to use the commands **penup** and **pendown** to make sure the turtle does not leave a track.