The creators loved the final level of Pixel Land that you designed. Now, they want you to design of a gaming machine.

The space for the buttons is square-shaped. How many buttons are needed if 1 button covers 1 block? Write your answer in the boxes given below.


2
Find the area of the rectangular space required to put a sticker on the machine. Check $\checkmark$ the correct box.
 Find the square-shaped area needed for the joystick. ©ircle the correct option.


25 sq mm
35 sq mm
36 sq mm

Area for the joystick

Find the area needed for the front poster. Write your answer in the boxes given below.


Area for the front poster


Number of blocks in a row
sq mm
$\times$


Find the area needed for the back poster. Circle the correct option.


Color the number of unit squares blue to complete the area needed for the screen.


Area for the screen

Now that the plan is ready, let's design the parts of the machine.
1
Design the main board by finding the number of blocks needed for the board. Write your answer in the boxes given below.


2
Place the screen in the machine by finding the area needed for the screen. Check $\checkmark$ the correct box.


How many buttons will cover the given area, if each button covers 1 sq mm . Circle the correct number of buttons.


25 buttons

Area for the buttons

Place the score display by finding the area needed for the display. Check $\checkmark$ the correct box.


The rows and columns of the score display have an unequal number of blocks. Circle the correct option.

Yes No

Place the rectangle-shaped top cover of the machine by matching the given lengths and widths correctly. The area of the cover is 48 sq units.

Hint: You should get 48 upon multiplying the length and width.


Length
Width

16 units

- 6 units

12 units

- 3 units

8 units

- 4 units

Now, the creators want you to make a new gaming machine for Pixel Land. Let's do that.

Check $\checkmark$ any area of your choice for the joystick from the given options.


Color the boxes red to represent the number of blocks in a row in the area selected above.

Color the boxes blue to represent the number of rows in the area selected above.


Find the area needed for the joystick if each unit block has 1 sq unit of area. Write your answer in the boxes given below.


Choose the area for the main board by selecting the number of unit blocks in a row, and column. Write your answers in the boxes given below.

- The unit blocks in a row, and column should be between 5 and 9 .


Number of unit blocks in a row


Number of units blocks in a column

Color the number of blocks selected above black.


Find the area needed for the joystick if each block has an area of 1 sq unit. Write your answer in the boxes given below.


Area needed for the main board

Which of the following part requires more area? (Circle the correct option.
Main board
Joystick

Well done, the game machine is ready. The creators love it!

