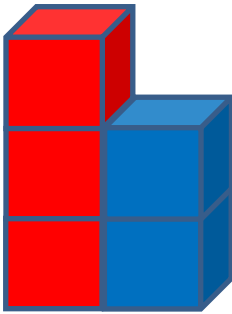


## Ratios Tables and Proportions with Blocks

Set 1: Build the structure below.

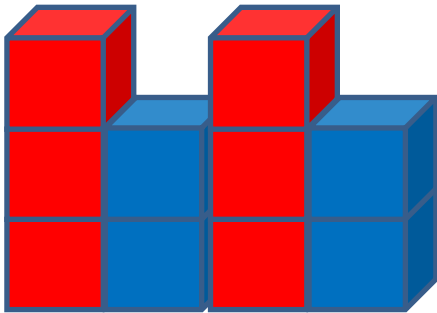


What is the ratio of red blocks to blue blocks?

What is the ratio of blue blocks to red blocks?

What is the ratio of red blocks to total blocks?

Duplicate your design as shown below.

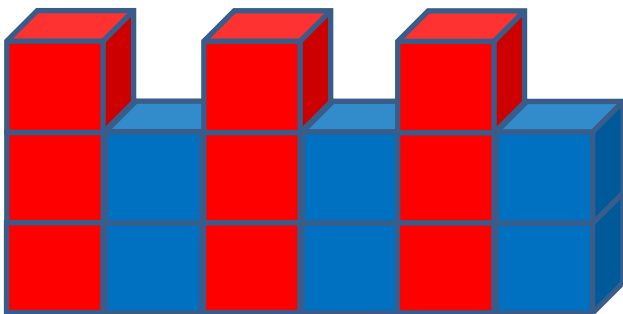


What is the ratio of red blocks to blue blocks?

What is the ratio of blue blocks to red blocks?

What is the ratio of red blocks to total blocks?

Triple your design as shown below.



What is the ratio of red blocks to blue blocks?

What is the ratio of blue blocks to red blocks?

What is the ratio of red blocks to total blocks?

Complete the table below without building the 4<sup>th</sup> or 10<sup>th</sup> structures:

	1 <sup>st</sup> Diagram	2 <sup>nd</sup> Diagram	3 <sup>rd</sup> Diagram	4 <sup>th</sup> Diagram	10 <sup>th</sup> Diagram
Red Blocks					
Blue Blocks					

Write the values above as fractions:

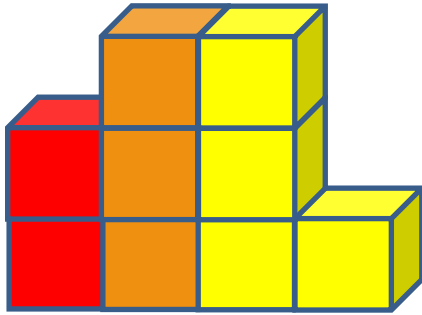
What do you notice?

Complete the table below without building the 4<sup>th</sup> or 10<sup>th</sup> structures:

	1 <sup>st</sup> Diagram	2 <sup>nd</sup> Diagram	3 <sup>rd</sup> Diagram	4 <sup>th</sup> Diagram	10 <sup>th</sup> Diagram
Blue Blocks					
Total Blocks					

Write the values above as fractions:

Set 2: Build the structure below:



What is the ratio of red to yellow?

What is the ratio of orange to red?

Duplicate the structure to fill in the ratio table below.

	1 <sup>st</sup> Diagram	2 <sup>nd</sup> Diagram	3 <sup>rd</sup> Diagram	4 <sup>th</sup> Diagram	10 <sup>th</sup> Diagram
Orange Blocks					
Yellow Blocks					

Write the equivalent ratios below:

Set 3: Create your own structure, draw a sketch below, and fill in the ratio table.

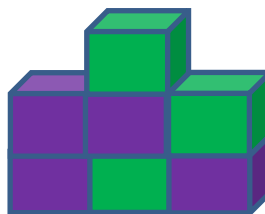
	1 <sup>st</sup> Diagram	2 <sup>nd</sup> Diagram	3 <sup>rd</sup> Diagram	4 <sup>th</sup> Diagram	10 <sup>th</sup> Diagram
_____ Blocks					
_____ Blocks					

Write a ratio of green blocks to purple blocks for each structure. Match the structures that are proportional (equal ratio of green blocks to purple blocks)

Structure 1:



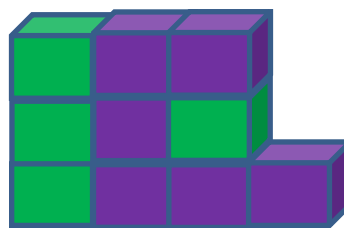
Structure 2:



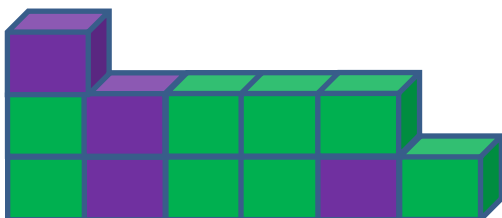
Structure 3:



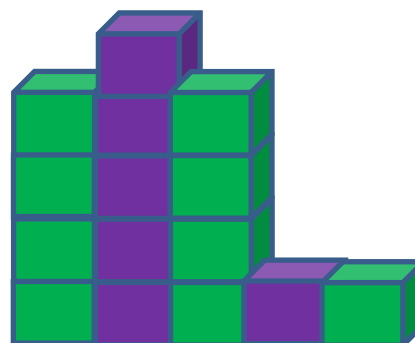
Structure 4:



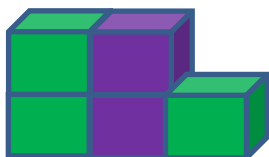
Structure 5:



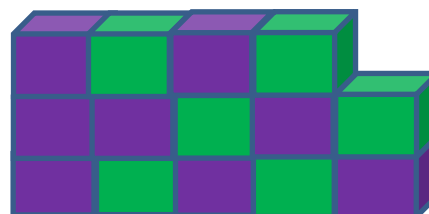
Structure 6:



Structure 7:



Structure 8:



Structure \_\_\_\_\_ & \_\_\_\_\_ are equal ratios.

Structure \_\_\_\_\_ & \_\_\_\_\_ are equal ratios.

Structure \_\_\_\_\_ & \_\_\_\_\_ are equal ratios.

Structure \_\_\_\_\_ & \_\_\_\_\_ are equal ratios.