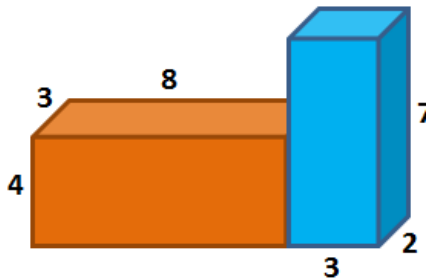


Name \_\_\_\_\_

Date \_\_\_\_\_

## Volume of Adjoining Rectangular Prisms

In this worksheet, we will practice finding the total volume of two adjoining rectangular prisms.



For example, for the adjoining prisms on the left:

The orange prism has a volume of  $8 \times 3 \times 4 = 96$

The blue prism has a volume of  $3 \times 2 \times 7 = 42$

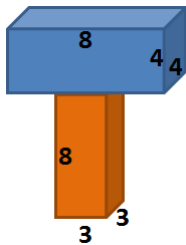
To find the total volume, add  $96 + 42$ .

The total volume of the orange and blue prisms is 138 units<sup>3</sup>.

### Exercise Questions:

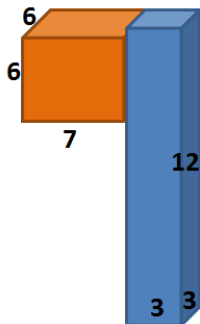
1. What is the total volume?

\_\_\_\_\_



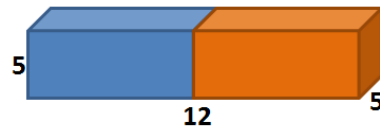
2. What is the total volume?

\_\_\_\_\_



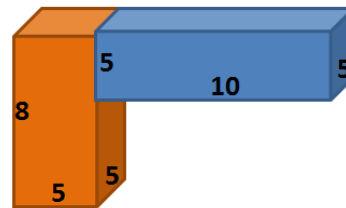
3. What is the total volume?

\_\_\_\_\_



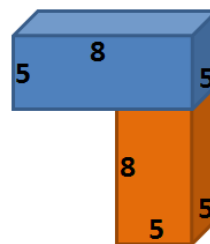
4. What is the total volume?

\_\_\_\_\_



5. What is the total volume?

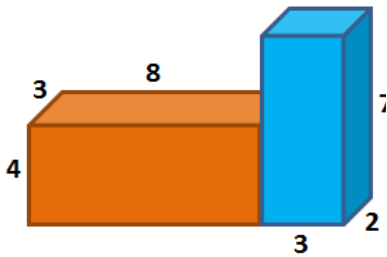
\_\_\_\_\_



## Answer Key

### Volume of Adjoining Rectangular Prisms

In this worksheet, we will practice finding the total volume of two adjoining rectangular prisms.



For example, for the adjoining prisms on the left:

The orange prism has a volume of  $8 \times 3 \times 4 = 96$

The blue prism has a volume of  $3 \times 2 \times 7 = 42$

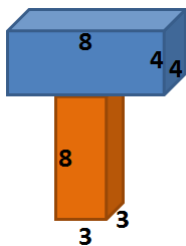
To find the total volume, add  $96 + 42$ .

The total volume of the orange and blue prisms is 138 units<sup>3</sup>.

#### Exercise Questions:

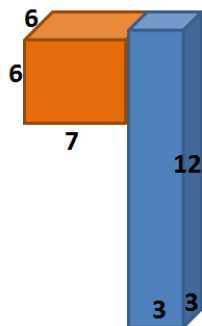
1. What is the total volume?

200 units<sup>3</sup>



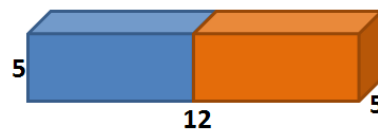
2. What is the total volume?

360 units<sup>3</sup>



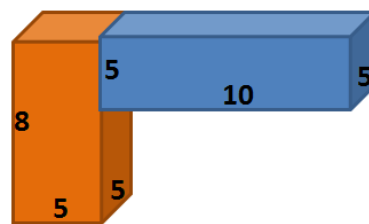
3. What is the total volume?

300 units<sup>3</sup>



4. What is the total volume?

450 units<sup>3</sup>



5. What is the total volume?

400 units<sup>3</sup>

