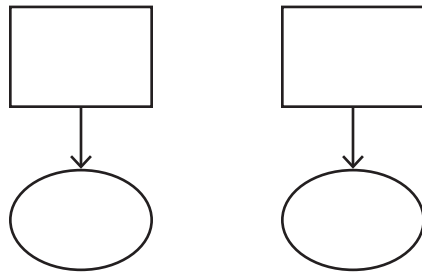


SPIRAL Activity Guide

Ratio/Proportion Schema

Let's use the Ratio/Proportion graphic organizer to solve our word problem!

First let's draw our Ratio/Proportion graphic organizer. What is our Ratio/Proportion graphic organizer?



Good. We draw the Ratio/Proportion graphic organizer to show the relation between the rectangles and the ovals. In a Ratio/Proportion problem, there are relationships among quantities. If this (point to left rectangle) is to that (point to left oval), then this (point to right rectangle) is to that (point to right oval).

(Gestures.)

Now, we need to find the relationship among our quantities. What is the relationship among quantities in this problem? It's helpful to think of this statement: "If this is to that, then this is to that" (gesture) when we are describing relationships among quantities.

(Responds.)

Now that we know our relationships, let's draw them into our graphic organizer. The left rectangle and oval represent the "if this is to that" part of our statement. Together, these numbers show the first relationship among our quantities. What is the first relationship among quantities?

(Responds.)

Exactly! So what should we put in the left rectangle?

___.

And what should we put in the left oval?

___.

Now we need to build the second part of our graphic organizer. The right rectangle and oval represent the "then this is to that" part of our statement. Together, these numbers show the second relationship among our quantities.

What is the second relationship among quantities?

(Responds.)

What should we put as the right rectangle? The right oval?

<i>If the right rectangle is known and the right oval is unknown:</i> The problem tells us the first part of our second relationship among quantities. This problem tells us that the right rectangle is ___. Where should we write ___? In the right rectangle. (Writes and checks off the number.) The second part of our second relationship among quantities is unknown. We have to find the value for the right oval. What should we write in the right oval? A question mark. (Writes.)	<i>If the right rectangle is unknown and the right oval is known:</i> The first part of our second relationship among quantities is unknown. We have to find the value for the right rectangle. What should we write in the right rectangle? A question mark. (Writes.) The problem tells us the second part of our second relationship among quantities. This problem tells us that the right oval is ___. Where should we write ___? In the right oval. (Writes and checks off the number.)
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Now we have our graphic organizer completed. What should we do next?

Solve for the unknown.

**We have our two relationships among quantities in our graphic organizer.
Does this look like a number sentence we know how to solve?**

Yes!

Let's read the number sentence together.

Read number sentence aloud with the student.

Let's solve for blank!

*After you find blank, label the number answer
with the word underlined in the problem.*

**The last thing we need to do is check to see if our answer makes sense.
Does this answer make sense? Why?**

(Student explains.)