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Dilation and finding scale factor worksheet answers

If you see this message, it means that we have problems loading external resources on our website. If you are behind a web filter, please make sure that the *.kastatic.org and *.kasandbox.org domains are unblocked. What are the factors? It's a fun game, isn't it? Sometimes you want to make an object smaller than it originally was, sometimes larger. Like how easy it is to fold and unfold clothes. We shrink them to fit them in a small area and open them to fit in our bodies. It's funny, isn't it? That's right, number sizes can also be switched to make shapes larger or smaller. A large-scale factor is known. Let's take an example that you have a square measuring one leg on each side. To make it larger, we will use the scale factor in two, so that each side of the square will be multiplied by two. This will make the square larger and now there will be measurements of two feet. Now let's say we have a triangle that is two inches high and an inch wide. We will use the scale factor $1/2$ to make the triangle smaller than the original shape. The triangle will be 1 cm high and 1.5 inches high. Click here to upgrade show us how the shape changes in an expansion-based coordinate system. Homework 1 - This extension is centered at the beginning, so you can find the image by multiplying the x- and y-coordinates on the scale. Homework 2 - Multiply the coordinates of point A(-8, -12) by $1/4$. The image is A'(-2,-3). Homework 3 - The movement here is quite substantial. The reason I made these so big is that students don't see the exact coordinates. Practice 1 - Depict the image of the ABCD rectangle after expansion with a scale factor of $1/4$ centered at the beginning. Practice 2 - See if you can break the scale factor in this one. Practice 3 - Where does this one move? I'm through a few funny images here just to lock in the concept. Test 1 - True or wrong, images are displayed dilation? Test 2 - See if they're shiny. Test 3 - See if you remember number two? If you see this message, it means that we have problems loading external resources on our website. If you are behind a web filter, please make sure that the *.kastatic.org and *.kasandbox.org domains are unblocked. What are the factors? It's a fun game, isn't it? Sometimes you want to make an object smaller than it originally was, sometimes larger. Like how easy it is to fold and unfold clothes. We shrink them to fit them in a small area and open them to fit in our bodies. It's funny, isn't it? That's right, number sizes can also be switched to make shapes larger or smaller. A number used to multiply dimensions is known to get another shape that looks exactly the same, is either greater or smaller, it is Factor. Let's take an example that you have a square measuring one leg on each side. To make it larger, we will use the scale factor in two, so that each side of the square will be multiplied by two. This will make the square larger and now there will be measurements of two feet. Now let's say we have a triangle that is two inches high and an inch wide. We will use the scale factor $1/2$ to make the triangle smaller than the original shape. The triangle will be 1 cm high and 1.5 inches high. Click here to upgrade show us how the shape changes in an expansion-based coordinate system. Homework 1 - This extension is centered at the beginning, so you can find the image by multiplying the x- and y-coordinates on the scale. Homework 2 - Multiply the coordinates of point A(-8, -12) by $1/4$. The image is A'(-2,-3). Homework 3 - The movement here is quite substantial. The reason I made these so big is that students don't see the exact coordinates. Practice 1 - Depict the image of the ABCD rectangle after expansion with a scale factor of $1/4$ centered at the beginning. Practice 2 - See if you can break the scale factor in this one. Practice 3 - Where does this one move? I'm through a few funny images here just to lock in the concept. Test 1 - True or wrong, images are displayed dilation? Test 2 - See if they're shiny. Test 3 - See if you remember number two? 2?

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