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How to construct a dilation with a scale factor of 2

In this geometry lesson, you will learn all about the dilation rules! Jenn, Founder Calcworkshop®, 15+ years of experience (student and certificate) More specifically, you are going to explore how to apply scale factors to calculate expansions and reductions. Finally, you are going to use techniques to find missing variables within data problems. Then let's start! Did you know that the expansions surround us? Whenever we want to zoom in and enlarge a photo so we can see the details, we are using a dilation transformation. During the eye exams, the pupil dilates (wires), allowing more light and giving the doctor a better view of the back of the eye. When you build plane models, cars, or buildings that are real scale and measure, you are performing a dilation. And your shadow is also a dilation. What is an expansion A expansion is a transformation that enlarges or reduces a figure in size. This means that preimage and image are similar and are reduced or enlarged using a scale factor. As you can see in the graphics below. A reduction (think shrinkage) is a dilation that creates a smaller image, and an enlargement (think stretch) is a dilation that creates a larger image. If the scale factor is between 0 and 1 the image is a reduction. If the scale factor is greater than 1, the image is an enlargement. Dilation – Enlargement How to find the scale factor of a dilation To find the scale factor for a dilation, we find the central point of expansion and measure the distance from this central point to a point on preimaging and also the distance from the central point to a point on the image. The relationship of these distances gives us the scale factor, as Math Bits Notebook states. Using expansion scale factors, we can reduce or expand ato the size we want, knowing that each angle is congruent, each segment is proportional, the slope of each segment is maintained, and the perimeter of the preimage and and andhave the same scale factor. How to find the next Ladder Factor, you will learn how to perform the following: Determine the scale factor for transformation. Identify the type of expansion. Draw a dilation using a scale factor. Find the perimeter ratio for two dilated digits. Video – Lesson & Examples 44 min 00:07:40 – Date the scale factor, determine whether expansion is a reduction or enlargement (Example #1-4) 00:09:48 – Identifying expansion and determining its scale factor (Example #5-7) 00:13:53 – Engrave expansion with the origin as a central point (I get ready-to-unlimited HD- Take Calcworkshop for a ride with our free limit course Video instructions Additional materials On this video, you will have access to interventions, extensions, guides for the implementation of activities and more for this educational video. In this lesson you will learn to draw an image of expansion with a negative scale factor using the center of expansion at the origin on the coordinate plane. Warm UpConstruct the image below following these directions: Draw a line segment labeled AB. Draw an ambulance. The size of the PAB angle doesn't matter. With your complete diagram, do as follows: Mark this crossroads A' Centre the compass on A' and build an arc with the same radius that intersects AP again. Label this crossroads A'. Center your compass on A' and build an arc with the same radius that intersects AP again.A'. build the A''B''.Construct segment a line through 'which is parallel to the segment a''''b''. label the intersection of this line and ab, B'. Write your comments. examples1 segment dilate ab line with center p and scale coefficient 2/5. which method is easier? 2. abc dilated triangle with p center and an unknown scale factor, but a' is given. for more information about dilation, check the following video:Homework1. read example 2 in the notes above. if this has not been completed in class, you must include this in your tasks. the set up would seem something true this. when copying in the notebook, make sure to use a ruler!2. draws a large line segment, ab, points of design p, q and r such that p and q are distinct points that are not colliar with ab and r is located on the line segment. build three expansions, each with scale factor 1/3. use each of the three points (p, q and r) as the centers of each expansion. Make sure you show your construction signs. signs. how to construct a dilation with a scale factor of 1/2. how to construct a dilation of 2. how to construct a dilation of 1/2. how to dilate by scale factor. how to construct a dilation

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