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## Transformations and congruence worksheet answer key

If you see this message, it means that we have trouble loading external resources on our website. If you are behind a web filter, make sure that the domains \*.kastatic.org and \*.kasandbox.org unblock. Label each image with the letter of the conversion used (i) reflected across the x(ii) axis, translate 3 units to the left( iii) reflect across the y-axis (iv), translate 4 units up (v), rotate clockwise 90° about the starting point, compare the size and shape of the last image to the original image. Question 2: Which conversion changes the orientation of numbers Question 3: Which conversion does not change the orientation of numbers Question 4: Two numbers of the same size and shape What does this indicate about numbers? Key questions, detailed answers to verse 1: The triangle has vertex (3, 4), (5, 4) and (5, 2) apply the specified set of conversions to the triangle. Label each image with the letter of the conversion used (i) reflected across the x(ii) axis, translate 3 units to the left( iii) reflect across the y-axis (iv), translate 4 units up (v), rotate clockwise 90° about the starting point, compare the size and shape of the last image to the original image. Answer :Step 1: (i) reflects across the x axis because it is reflected across the x axis, we must multiply each y coordinate with -1, that is, (x, y) -----&gt; (x, -y) so we have (3, 4) -----&gt; (3, -4) (5, 4) -----&gt; (5, -4) (5, 2) -----&gt; (5, -2) image chart Step 2: (ii) translate 3 units to the left, since there are 3 units to the left, we need to remove 3 from each x-coordinate, that is, (x, y) -----&gt; (x-3, y) so we have (3, -4) -----&gt; (0, -4) (5, -4) -----&gt; (2, -4) (5, -2) -----&gt; (2, -2) Picture Graph Step 3: (iii) reflects across the y axis, because there is a reflection across the y axis, we must multiply each x-coordinate with -1, that is, (x, y) -----&gt; (-x, y) so we have (0, -4) -----&gt; (0, -4) (2, -4) -----&gt; (-2, -4) (2, -2) -----&gt; (-2, -2) picture graphs. Step 4: (iv) translate 4 or more units, because 4 units are translated, we need to add 4 to each y coordinate, that is, (x, y) -----&gt; (x, y+4) so we have (0, -4) -----&gt; (0, 0) (-2, -4) -----&gt; (-2, 0) (-2, -2) -----&gt; (-2, 2) Graph Step 5: (v) Rotate clockwise 90° on the stem, since there is a 90° rotation clockwise about the origin, we have multiplied each x coordinates by -1 and exchange x and y coordinates. y) -----&gt; (y, -x) so we have (0, 0) -----&gt; (0, 0) (-2, 0) -----&gt; (0, 2) (-2, 2) -----&gt; (2, 2) graphs Compare the size and shape of the last image to the original image. They have the same size and shape, just different orientations. Question 2: Which conversion changes the orientation of numbers Answer: Reflection and rotation quest 3: Which changes do not change the orientation of numbers? 4: The two numbers are the same size and shape. What does this indicate about numbers? Answer: One image is a picture of another, and there is a sequence of conversions that will change one number to another. Apart from what is provided above, if you need other things in mathematics, please use our google custom search here v4formath@gmail.com. We always appreciate your feedback. You can also visit the following web page about things in math, WORDSHCF issues, and LCM word problemsWord. 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Word problemsPercentage word issues, profit and loss word issues, markup and markup problems, decimal word problemsWord problems, fractional problems, Word problems with fractions, mixed processes, equations, word problemsLinear, word problem,Ratio, and proportion, problem, word, time, and word problems workWord The problem with the series and diagrams Wayne ProblemWord About AgePythagorean Theory Word Problem Percent Word Problem Word ProblemWord Problem Fixed Speed Problem The problem with the average speed problem The problem with the sum of the triangle angle is 180 degreeSOTHER TOPICS And a range of domain shortcuts and a range of functions with reasoning functions, rational functions, rational functions, logical functions with duplicate decimal separators, so decimal fractions represent rational figuresfinding table roots using long breaks.C.M The problem in algebra expression remainder when 2 power 256 is divided by 17 remainder when 17 power 23 divided by 16sum of all three digits divided by 6 summer of the three digits. By 7Sum of all three digits divided by 8Sum of all three digits formed by 1, 3, 4Sum of all four digits formed by a non-zero number of all four digits formed using 0, 1, 2, 3Sum of all four digits formed using 1, 2, 5, 6 copyrights, onlinemath4all.com SBI!