

# Free download Past paper questions area and volume of similar shapes (2023)

learn what it means for two figures to be similar and how to determine whether two figures are similar or not use this concept to prove geometric theorems and solve some problems with polygons what are similar shapes similar shapes are enlargements of each other using a scale factor all the corresponding angles in the similar shapes are equal and the corresponding lengths are in the same ratio e g these two rectangles are similar shapes the scale factor of enlargement from shape a to shape b is 2 the angles are all 90 o if one shape can become another using resizing also called dilation contraction compression enlargement or even expansion then the shapes are similar these shapes are similar if there is no need to resize then the shapes are better called congruent similar shapes are the shapes that have corresponding sides in proportion to every alternative and corresponding angles adequate to each other similar shapes look equivalent however the sizes will be different in general similar shapes are different from congruent shapes similar shapes transformations two shapes are similar if we can change one shape into the other using rigid transformations like moving or rotating and dilations making it bigger or smaller other kinds of transformations can change the angles or the ratios of lengths in a figure in geometry two similar shapes such as similar triangles similar rectangles similar square are the shapes whose dimensions are in equal or common ratio but the size or length of their sides vary the common ratio is called the scale factor learn what it means for two figures to be similar and how to determine whether two figures are similar or not use this concept to prove geometric theorems and solve some problems with polygons two geometric figures are similar if they have the same shape but not necessarily the same size and have the following properties

corresponding angles are congruent corresponding sides are proportional the mathematical symbol is used to indicate similar geometric figures similar figures are objects with the same shape but different in size learn more about this interesting concept of similarity of triangles similarity of polygons and solve a few examples transformations change the size or position of shapes congruent shapes are identical but may be reflected rotated or translated scale factors can increase or decrease the size of a shape definition proportions and ratios how to solve examples similar figures definition if two flat shapes are the same but one is larger or smaller than the other they are said to be similar figures an easy way to test similarity is to consider transformations that could make one into the other enlarge or shrink flip rotate in euclidean geometry two objects are similar if they have the same shape or if one has the same shape as the mirror image of the other more precisely one can be obtained from the other by uniformly scaling enlarging or reducing possibly with additional translation rotation and reflection similar figures are figures that are the same shape but not necessarily the same size similar figures can also be defined in relation to transformations transformations maths revision video and notes on the topic of solving problems involving similar shapes this lesson will allow you to understand the relationship between area and corresponding sides of similar figures here are the sections within this lesson page determining ratios of areas with similar rectangles ratios of areas between similar figures the area and length of similar figures equation similar shapes similar vs congruent lesson summary frequently asked questions can similar shapes be congruent similar shapes can be congruent if they are the same size but if the sizes this video is an easy two minute explanation of similar shapes for gcse maths the video is applicable to students studying edexcel gcse maths aqa gcse math the formula for the area of similar shapes is given below  $\frac{\text{area of figure a}}{\text{area of figure b}} = \left(\frac{a}{b}\right)^2$  to find the area of two similar shapes we can use the knowledge that the ratio of their areas is equal to the ratio of the square of their respective sides let us take an example  $abc \sim def$  this video explains what similar shapes are and how to use scale factors to find the missing length of one of the sides this

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what are similar shapes similar shapes are enlargements of each other using a scale factor all the corresponding angles in the similar shapes are equal and the corresponding lengths are in the same ratio e g these two rectangles are similar shapes the scale factor of enlargement from shape a to shape b is 2 the angles are all 90 o

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if one shape can become another using resizing also called dilation contraction compression enlargement or even expansion then the shapes are similar these shapes are similar if there is no need to resize then the shapes are better called congruent

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similar shapes are the shapes that have corresponding sides in proportion to every alternative and corresponding angles adequate to each other similar shapes look equivalent however the sizes will be different in general similar shapes are different from congruent shapes

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similar shapes transformations two shapes are similar if we can change one shape into the other using rigid transformations like moving or rotating and dilations making it bigger or smaller other kinds of transformations can change the angles or the ratios of lengths in a figure

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in geometry two similar shapes such as similar triangles similar rectangles similar square are the shapes whose dimensions are in equal or common ratio but the size or length of their sides vary the common ratio is called the scale factor

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learn what it means for two figures to be similar and how to determine whether two figures are similar or not use this concept to prove geometric theorems and solve some problems with polygons

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two geometric figures are similar if they have the same shape but not necessarily the same size and have the following properties corresponding angles are congruent corresponding sides are proportional the mathematical symbol is used to indicate similar geometric figures

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transformations change the size or position of shapes congruent shapes are identical but may be reflected rotated or translated scale factors can increase or decrease the size of a shape

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definition proportions and ratios how to solve examples similar figures definition if two flat shapes are the same but one is larger or smaller than the other they are said to be similar figures an easy way to test similarity is to consider transformations that could make one into the other enlarge or shrink flip rotate

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in euclidean geometry two objects are similar if they have the same shape or if one has the same shape as the mirror image of the other more precisely one can be obtained from the other by uniformly scaling enlarging or reducing possibly with additional translation rotation and reflection

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the formula for the area of similar shapes is given below  $\frac{\text{area of figure a}}{\text{area of figure b}} = \left(\frac{a}{b}\right)^2$  to find the area of two similar shapes we can use the knowledge that the ratio of their areas is equal to the ratio of the square of their respective sides let us take an example abc sim def

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