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The ratio between the areas of similar figures is equal to the square of the ratio of corresponding lengths of those figures (for example, when the side of a square or the radius of a circle is multiplied by three, its area is multiplied by nine — i.e. by three squared). Euclidean symmetries in general. The most common group of transforms applied to objects are termed the Euclidean group of "isometries," which are distance-preserving transformations in space commonly referred to as two-dimensional or three-dimensional (i.e., in plane geometry or solid geometry Euclidean spaces). The AEC (Architecture, Engineering, Construction) industry and the related processes employed during planning, designing, building, manufacturing, occupying, maintenance, as well as the demolition of facilities all involve data and information that is used for a wide variety of purposes during the project lifecycle.

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