TASC Mathematics – the Geometry Content Emphases

Almost 1/4 (23%) of the Math on the TASC is Geometry

The following pages list the geometry standards assessed on the TASC and a sample question for each standard¹. Also noted is whether each standard is a high, medium or low emphasis topic on the TASC

The 23% of the TASC that is geometry is divided up into the following sub-domains:

- Geometric Measurement and Dimension 6%
- Modeling with Geometry 7%
- Congruence 5%
- Similarity, Right Triangles, and Trigonometry² 5%

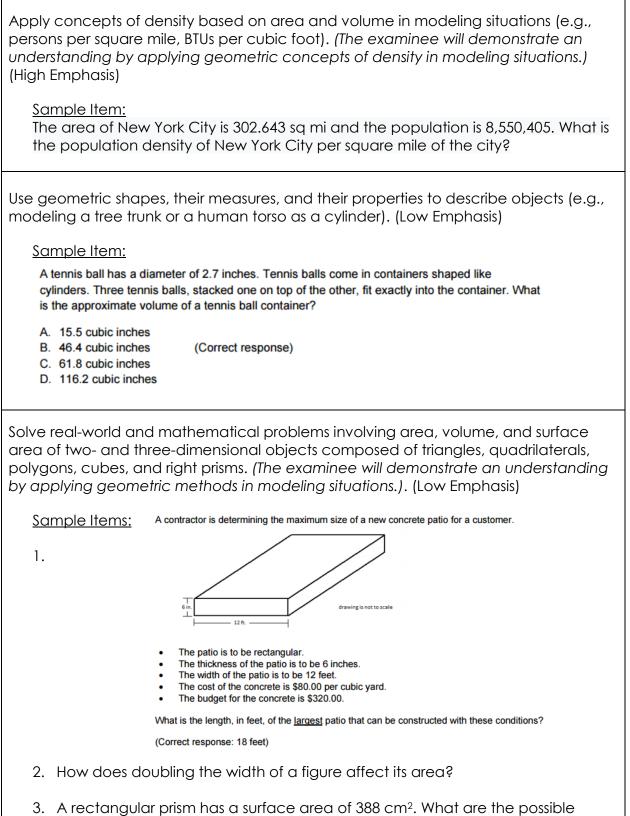
Geometric Measurement and Dimension - 6%

Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems. (High Emphasis)
<u>Sample Items</u> :
1. Find the volume of the rectangular prism in cubic centimeters.
7 cm 3 cm 10 cm
(Correct response: 210 cubic centimeters)
2. Determine the volume of a cylinder with a radius of 3in and a height of 7 in.
3. How is the volume of a cone affected by doubling the height?
4. The surface area of a cube is 486 cm ² . What is the volume of the cube?

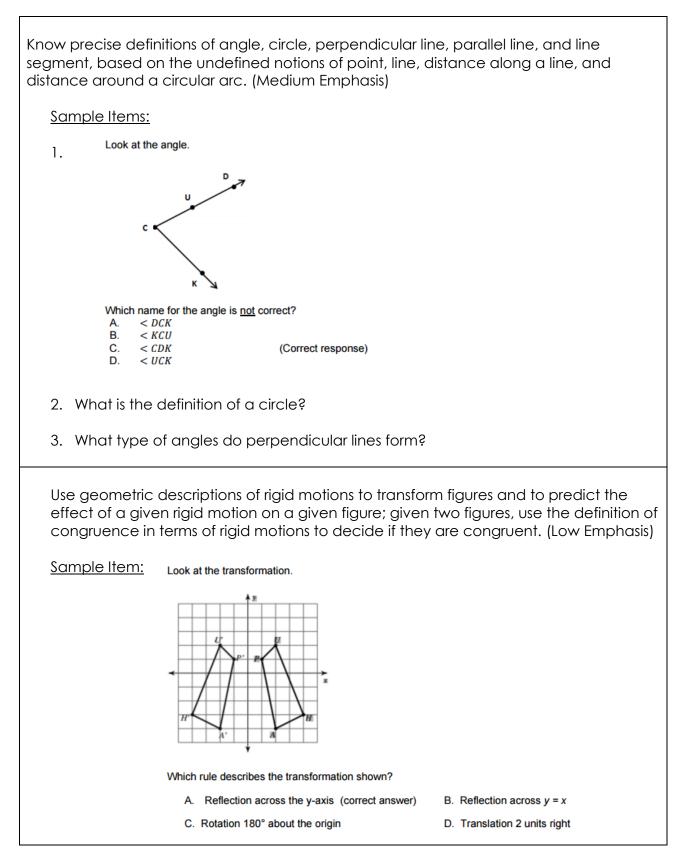
¹ The sample questions are taken from the TASC Item Specifications made available by DRC/CTB.

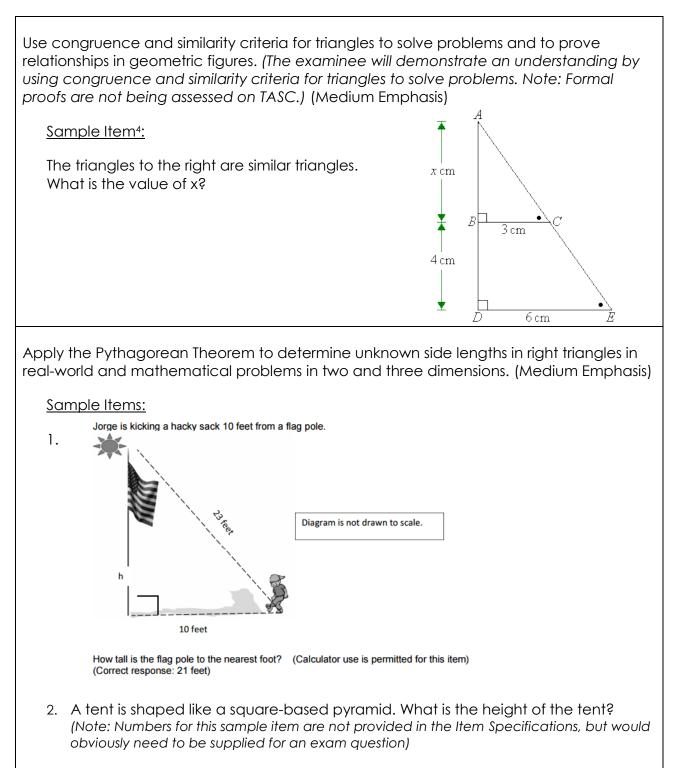
http://www.acces.nysed.gov/common/acces/files/hse/tasc_2016_item_specifications_mathematics_may2016.pdf

² Please note, though the word appears in the title of the subdomain, <u>Trigonometry is no longer covered on the TASC</u>



dimensions?





³ Please note, Trigonometry is no longer covered in TASC

⁴ Note: The question comes from the Item Specifications, but there is no diagram provided, so we added one that was within the evidence statement, the assessment limits and the content standard itself.