Standard 7.G.6 **Applications of Geometry**  Unit 2 Day 15

Geometry Review:

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| **Types of Triangles:** |  |  |  |
| **Types of Quadrilaterals:** |  |  |  |
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| **Types of Polygons:** |  |  |  |

**Area Application Problems:**

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| How much canvas will Matthew need for his new triangular sail if the height must be 18 ft and the base must measure 23 ft? If the canvas cost $15 a square foot how much will he pay for the canvas?  https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcRBysbe1uS7mH94I8NIsEdy-KP7G87kxCfIUboZ0OSHRxFS7Bds | | You friend is buying new carpet for her rectangular room. The room is 12 ft long and 8 ft wide. If carpet cost $4.50 /ft2  how much will the carpet cost? | |
| A volleyball court is 18 m long and 9m. wide. It is divided into 2 halves. What are the perimeter and the area of each half? | | Dan has decided to plant a garden. He wants to make it 10m long and 4m wide. In order to keep the rabbits out, Dan needs a fence surrounding the garden . He decides to make the fence 11m long and 5m wide. What is the area between the fence and the garden?  ( Hint: find the area of the garden and then the area surrounded by the fence.) | |
| **VOLUME** | | | |
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| **Volume of a rectangular Prism:** | **Volume of a cylinder:** | | **Volume of a cube:** |
| **Surface area of a prism:** | | | |

**Practice:**

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| Find the volume:  2 in  5 in  20 in | Find the volume:  8 m  5 m |
| Find the volume  5 yd. | Find the surface area:  2 in.  4 in.  2 in. |
| **Application:**  A town wants to build a sandbox at the local park. The required dimensions are 20ft by 7 ft. OSHA requires that the depth of the sandbox is 2 feet.   1. How much sand do they need? 2. If sand cost $.50 for every cubic foot, how much will the town spend on the sand alone? | |