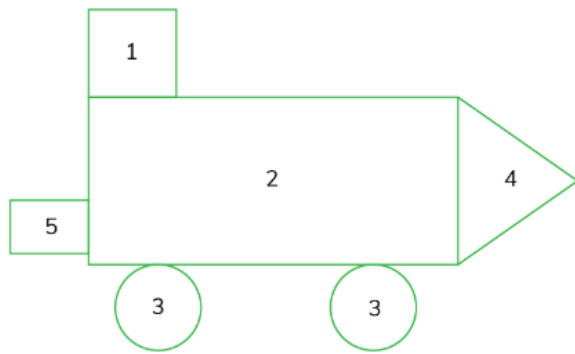


Geometry: 3D Shapes

Shape sums

Megan constructed a car using 3D objects made of cardboard. Then she drew a diagram of her car using 2D shapes to represent each part.

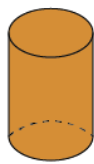


PART A

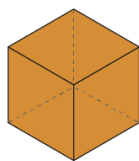
Match 1 3D object with each 2D shape in the diagram to show 1 way Megan could have constructed her car using 3D objects. You can use the same object twice if you need to.

1 2 3 4 5

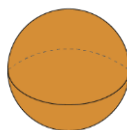
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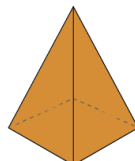
Cylinder



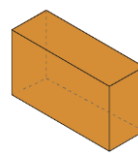
Cube



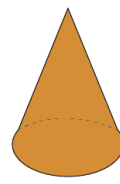
Sphere



Square Pyramid



Rectangular Prism



Cone

PART B

There are many ways Megan could have constructed the cardboard car.

Drag 3D objects to show 1 other way.

1

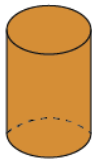
2

3

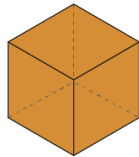
4

5

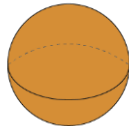
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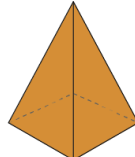
Cylinder



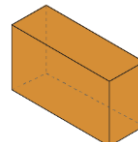
Cube



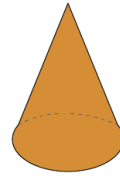
Sphere



Square Pyramid



Rectangular Prism








Cone

PART C

Describe which objects you think would be best used to construct each part of the car and why.


PART D

Megan used 4 x  1 x  1 x  1 x  and 1 x  to build the car.

Enter the numbers into the boxes to complete the sentences.


The total number of curved surfaces on the 3D objects used to build the car

was



The total number of flat faces on the 3D objects used to build the car

was



The total number of vertices on the 3D objects used to build the car

was



The total number of edges on the 3D objects used to build the car