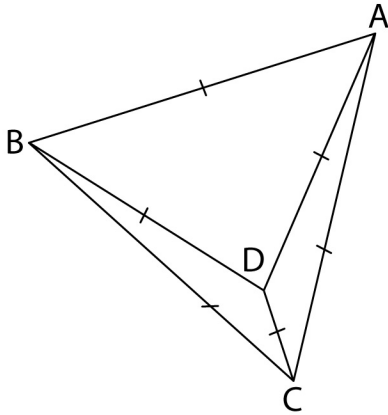


Name: _____

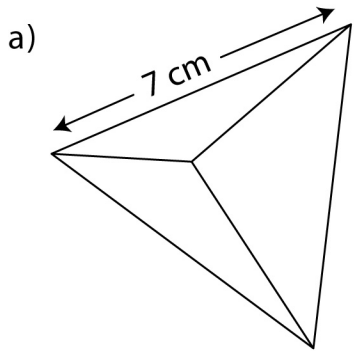
Tetrahedron Worksheet

1. Using the given tetrahedron, answer the following.



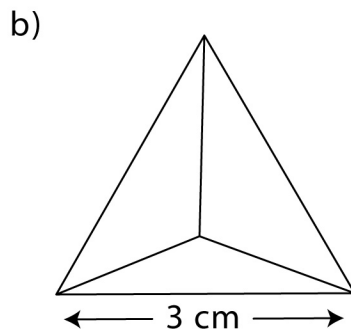
- a) Number of faces = _____
- b) Number of vertices = _____
- c) Number of parallel faces = _____
- d) Number of planes of symmetry = _____

2. Find the total and the lateral surface areas of each regular tetrahedron.



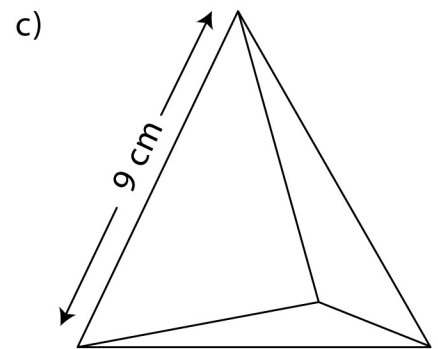
i) Total surface area

ii) Lateral surface area



i) Total surface area

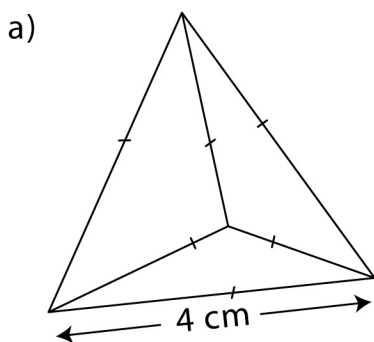
ii) Lateral surface area



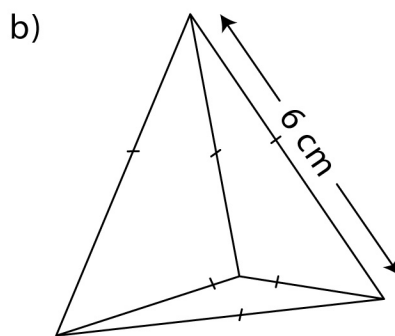
i) Total surface area

ii) Lateral surface area

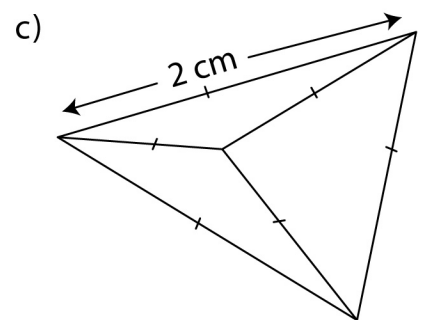
3. Determine the volume of each tetrahedron.



Volume _____



Volume _____



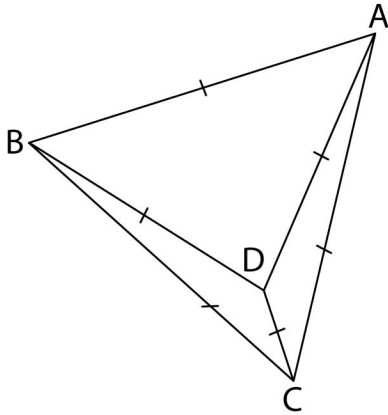
Volume _____

Name: _____

Tetrahedron Worksheet

Answers

1. Using the given tetrahedron, answer the following.



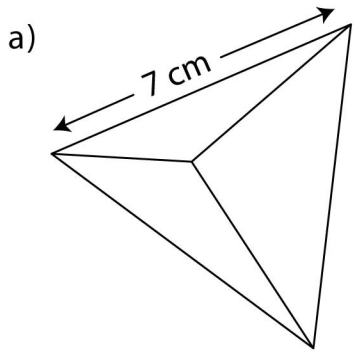
a) Number of faces = 4

b) Number of vertices = 4

c) Number of parallel faces = 0

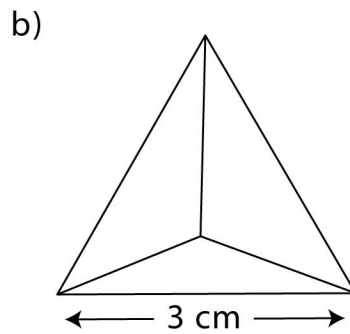
d) Number of planes of symmetry = 6

2. Find the total and the lateral surface areas of each regular tetrahedron.



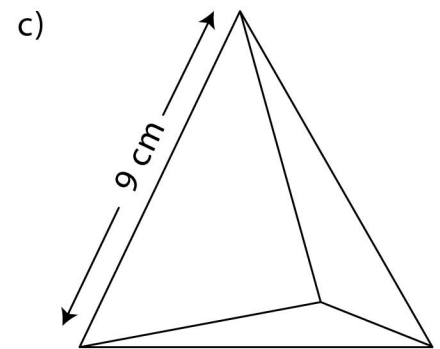
i) Total surface area
84.87 cm²

ii) Lateral surface area
63.65 cm²



i) Total surface area
15.59 cm²

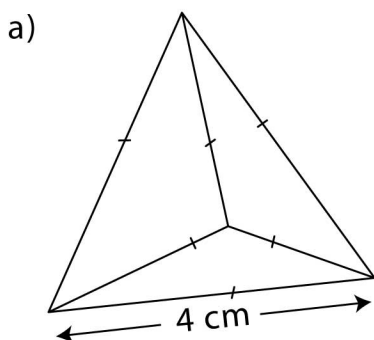
ii) Lateral surface area
11.69 cm²



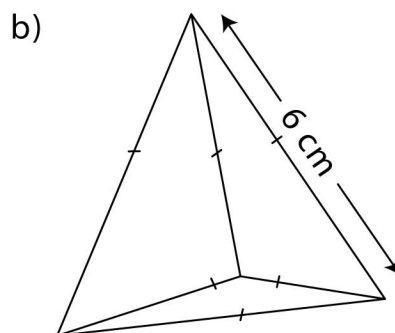
i) Total surface area
140.30 cm²

ii) Lateral surface area
105.22 cm²

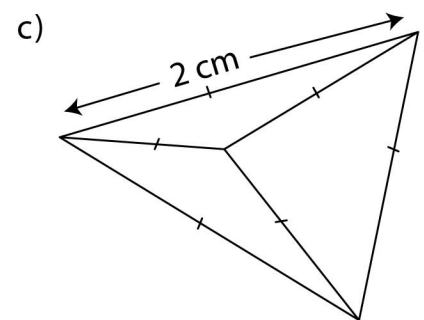
3. Determine the volume of each tetrahedron.



Volume 7.54 cm³



Volume 25.46 cm³



Volume 0.94 cm³