

Activity 15 Answers

4a. $A = 8\text{cm}^3$

$B = 15\text{cm}^3$

$C = 20\text{cm}^3$

$D = 12\text{cm}^3$

4b. $A = 9\text{cm}^3$

$B = 13\text{cm}^3$

$C = 14\text{cm}^3$

$D = 11\text{cm}^3$

5a. Shape B has the smallest volume. Shape A has a volume of 16 cm^3 while shape B has a volume of 12 cm^3 .

5b. Shape B has the largest volume. Shape B has a volume of 19 cm^3 while shape A has a volume of 15 cm^3 .

6a. descending order (biggest to smallest):

D, B, C, A

6b. ascending order (smallest to biggest)

A, C, B, D

Challenge

4a. Answers should describe a shape which could have the given side view on at least one side and a volume between 5cm^3 and 20cm^3 .

5a. Karl