

Surface Area of Polyhedra

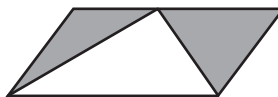
Puzzle it out.

Workspace

- 1 I am a rectangular prism.
 My volume is 30 cu cm.
 My shorter dimensions are 2 cm and 3 cm.

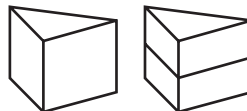
What is my longest dimension? _____

- 2 I am a triangle.
 A parallelogram whose base and height are the same as mine has an area of 9 sq in.



What is my area? _____

- 3 I am a triangular prism.
 My volume is 24 cu cm.
 My surface area is 60 sq cm.
 My height is 4 cm.
 I am cut into two congruent, triangular prisms, each 2 cm high.



What is the volume of each? _____

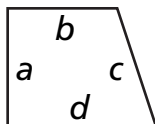
- 4 I am a trapezoid.
 My area is 5 sq cm.
 The lengths of my bases are 1 cm and 3 cm.

What is my height? _____



Test Prep

- 5 Mabel drew this trapezoid.



Which two line segments appear to be parallel?

- A. a and b C. a and d
 B. a and c D. b and d