GRADE 7 MATH · CLASSWORK · ADVANCED

Describe Cross Sections of Right Rectangular Prisms

SCORE / 25

01 Part A · Practice

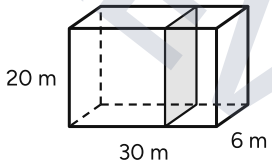
A slice of a rectangular prism parallel to a face is a rectangle with the same size as that face.

EXAMPLE

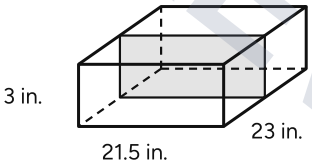
A prism is 8 cm long, 5 cm wide, 3 cm tall. Describe the slice parallel to the base.

1. The base is 8 cm by 5 cm.
2. A slice parallel to the base is a copy of the base.
3. Cross section: a rectangle, 8 cm by 5 cm (area 40 cm^2).

1 ●○○ Find the area of the shaded cross section.



2 ●○○ The prism is sliced parallel to the front face (shaded). Give its shape and dimensions.



3 ●○○ A cube with 2 m edges is sliced parallel to a side face. Describe the cross section and find its area.

4 ●○○ An 11 × 19 × 10 ft prism ($\ell \times w \times h$) is sliced parallel to the front face. Describe the cross section.

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Preview - the full worksheet and its answer key are at primeworksheet.com