

8.8 Nets of Solids

Chapter 8: Geometry and Measurement

Name: _____

Date: _____

Class/Period: _____

Problem 8.113 List the face dimensions of a $7 \times 5 \times 3$ rectangular prism.

Problem 8.116 A square pyramid has base side 8. How many triangular faces appear in its net?

Problem 8.114 Describe a cube net in words.

Problem 8.117 A net has two congruent pentagons and five rectangles. Name the solid.

Problem 8.115 A triangular prism has triangle sides 5, 5, 6 and length 9. List its faces.

Problem 8.118 A net has one hexagon and six triangles. Name the solid.

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Problem 8.119 Explain why opposite faces of a cube cannot share an edge in a net after folding.

Problem 8.122 Draw a net for a square pyramid.

Problem 8.120 Draw two different cube nets.

Problem 8.123 Explain why a 2×3 rectangle of squares is not a cube net.

Problem 8.121 Draw a net for a triangular prism.

Problem 8.124 A rectangular-prism net contains four 10×4 rectangles. What can you infer about the prism?

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Problem 8.125 A rectangular prism has faces with areas 24, 30, and 20, each occurring twice. Find its dimensions.

Problem 8.127 Design an invalid cube net and explain precisely where overlap occurs.

Problem 8.126 A triangular prism net has rectangles 6×10 , 8×10 , and 10×10 . Identify the triangular base and explain.

Problem 8.128 How many distinct cube nets are there? Investigate systematically by classifying connected arrangements of six squares. You may begin with nets containing a row of four, but include arrangements whose longest row has fewer than four squares.