

Grade 6 - Nets and Surface Area - Worksheet

Common Core 6.G.A.4 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

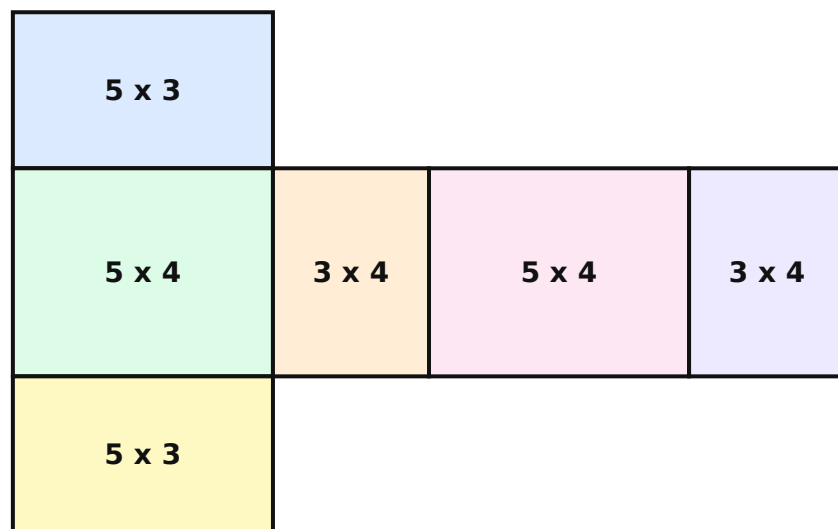
These 20 problems practice nets and surface area (Common Core 6.G.A.4). You will use nets of prisms and pyramids, find the area of each face, add them, and solve real-world problems about gift wrap, paint, tents, and boxes with missing faces.

Grade 6 · Common Core State Standards: **6.G.A.4**

Exercise 1 - Name the solid

A net has 6 rectangles: two 5 by 3, two 5 by 4, and two 3 by 4. Name the solid it folds into.

Exercise 2 - Surface area from a net



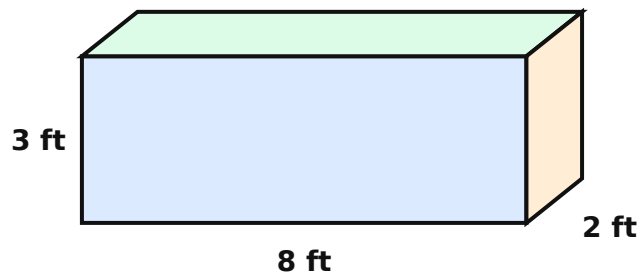
Each rectangle is one face.

Find the surface area of the prism with this net (in square centimeters).

Exercise 3 - Surface area of a cube

Find the surface area of a cube with edge length 6 inches.

Exercise 4 - Surface area of a prism



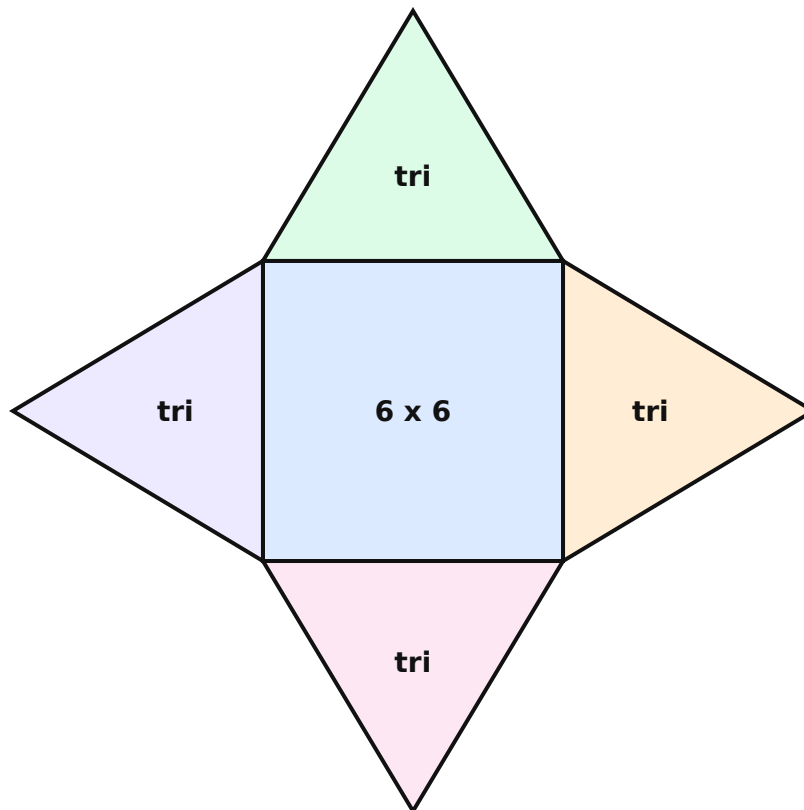
A box.

Find the surface area of the prism.

Exercise 5 - Lateral area

A box is 4 inches by 4 inches by 9 inches. Find the area of the four side faces (not the top and bottom).

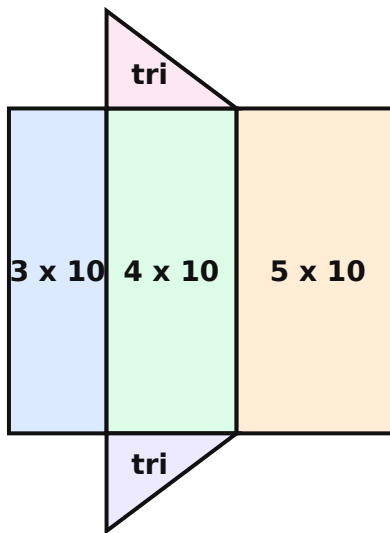
Exercise 6 - Square pyramid



The base is a 6 by 6 square. Each triangle has base 6 and height 5.

Find the surface area of the square pyramid (units are centimeters).

Exercise 7 - Triangular prism



A prism with right-triangle bases (units are centimeters).

The net is for a triangular prism with triangle sides 3, 4, and 5 and length 10. Find the surface area.

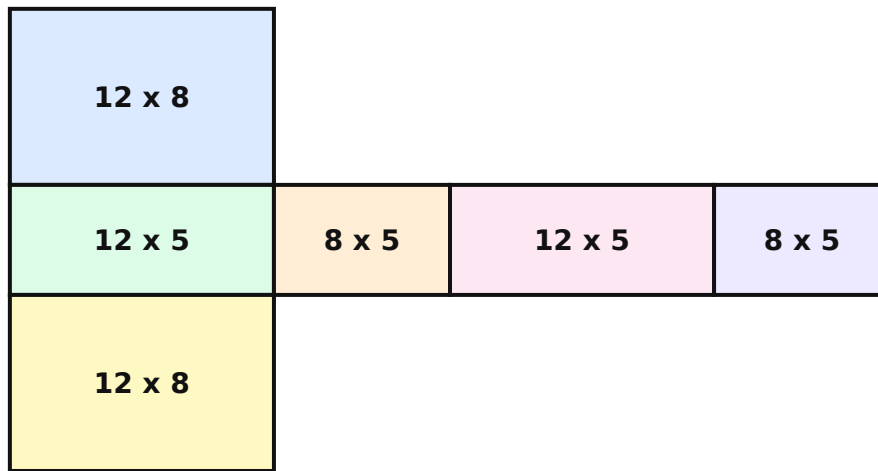
Exercise 8 - Find the edge of a cube

A cube has a surface area of 150 square inches. Find the edge length.

Exercise 9 - Large pyramid

A square pyramid has a base of 10 meters by 10 meters and triangular faces with a height of 13 meters. Find its surface area.

Exercise 10 - Wrapping paper



A gift box (inches).

A gift box is 12 inches long, 8 inches wide, and 5 inches tall. Find the area of wrapping paper needed to cover it exactly.

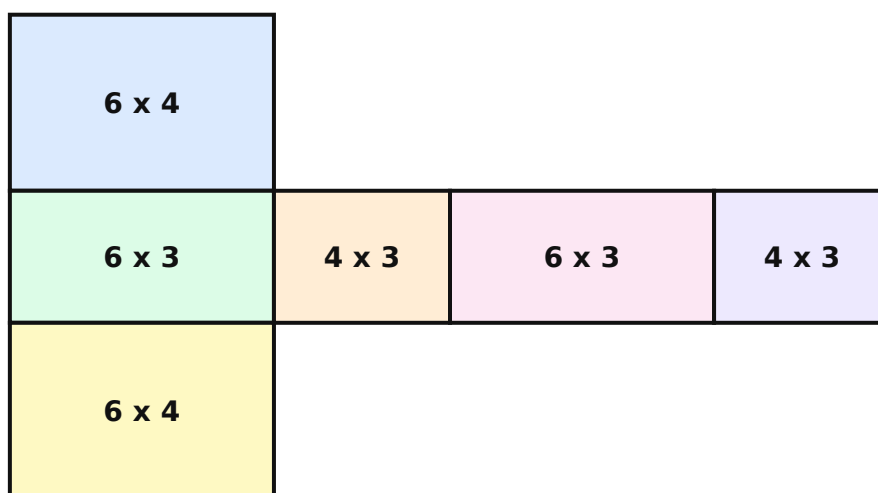
Exercise 11 - Open-top tank

A glass fish tank has no top. It is 20 inches long, 10 inches wide, and 12 inches tall. Find the area of glass needed.

Exercise 12 - Does the net fold?

A net is made of a 4 by 4 square with four 4 by 4 squares attached on each side (a cross shape). How many faces does it have, and what solid does it make?

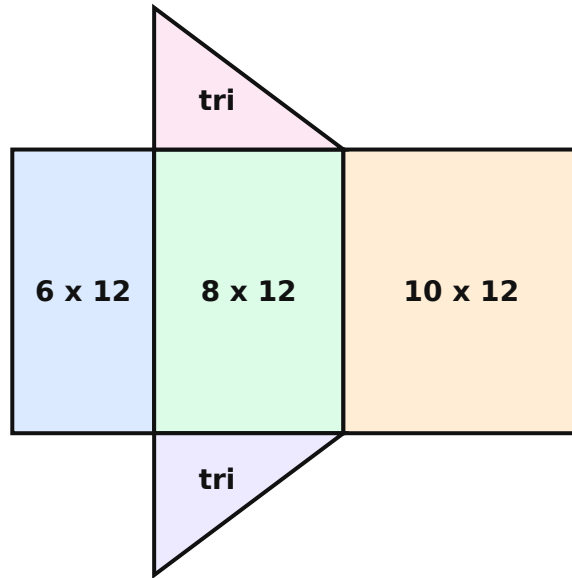
Exercise 13 - Missing face



A box 6 by 4 by 3 inches.

A box 6 inches by 4 inches by 3 inches has no lid. Find the area of the five faces that are present.

Exercise 14 - Tent



A tent (feet).

A tent is a triangular prism with triangle sides 6, 8, and 10 feet and length 12 feet. Find the surface area of all faces.

Exercise 15 - Cereal box

A cereal box is 7.5 inches long, 2 inches wide, and 10 inches tall. Find its surface area.

Exercise 16 - Pyramid tent

A square pyramid has a base of 8 feet by 8 feet and slant height 7 feet. Find the surface area.

Exercise 17 - Cube or prism?

A cube has edge 5 centimeters. A prism is 4 by 5 by 6 centimeters. Which has the greater surface area?

Exercise 18 - Decimal edges

Find the surface area of a prism that is 2.5 meters by 4 meters by 6 meters.

Exercise 19 - Painting a cube

Sofia paints all six faces of a wooden cube with edge 4 feet. One quart of paint covers 40 square feet. Find the surface area and the number of quarts she needs.

Exercise 20 - Isosceles triangular prism

A prism has bases that are triangles with sides 5, 5, and 6 inches and a height of 4 inches on the 6-inch side. The prism is 9 inches long. Find its surface area.