

Represent Three-Dimensional Figures in Two Dimensions

Lesson 5-6

Name: Type your name

Date: Today's date

Class: Class period

My Notes

Level 2 Standard



TODAY'S OBJECTIVES

Content Objective: I can find the surface area of a solid by using its net.

Language Objective: I can explain my work using the words surface area, net, face, and two-dimensional.



See **Learn It** for the explanation and worked examples, and the **Vocab** tab for the words. These are your notes to fill in and keep.



Fill in each blank as we go. Use the Word Bank to help you.



WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Surface Area Using Nets

Surface area

Net

Face

Two-dimensional

Edge



Tap any word to see what it means and a picture.

- 1 The total area of every face, found by adding the faces in a net, is the

- 2 The total area of all the faces of a solid is its

- 3 A flat pattern that folds up into a solid is a

- 4 A flat surface of a solid figure is a

- 5 A flat shape with length and width but no thickness is

- 6 A line segment where two faces meet is an

Write About the Math

How many sheets of wrapping paper are needed to cover the entire box?

¿Cuántas hojas de papel de regalo se necesitan para cubrir toda la caja?

Say your answer to a partner first. Then write it, using at least two of these words:

☐ **Surface Area Using Nets**
Área de superficie usando redes

☐ **Surface area**
Área de superficie

☐ **Net**
Plantilla (desarrollo plano)

☐ **Face**
Cara

☐ **Two-dimensional**
Bidimensional

Model: *A net lays every face flat so you can see and measure all six faces.* — Students explain a rectangular prism has 6 faces, and the net unfolds the solid into a flat (two-dimensional) pattern so every face is visible to measure.

Start

Complete the frames. Use the word bank.

Completa las oraciones. Usa el banco de palabras.

- **The box's surface area is ____ in² because $SA = 2(\text{____} \times \text{____}) + 2(\text{____} \times \text{____}) + 2(\text{____} \times \text{____})$**
= ____ + ____ + ____ = ____. **You need ____ sheets because $\text{____} \div 400 \approx \text{____}$.**
- **My answer is ____ because ____.**
Mi respuesta es ____ porque ____.

Build

Write two connected sentences. Use because, so, or but.

Escribe dos oraciones conectadas. Usa porque, entonces o pero.

- **My claim is ____.**
Mi afirmación es ____.
- **My evidence is ____, so ____.**
Mi evidencia es ____, entonces ____.

Explain

Write a claim, give math evidence, and explain your reasoning.

Escribe una afirmación, da evidencia matemática y explica tu razonamiento.

☐ I answered the question.

☐ I used math evidence: numbers, an equation, or a model.

☐ I used at least two math words.