Math 7.1

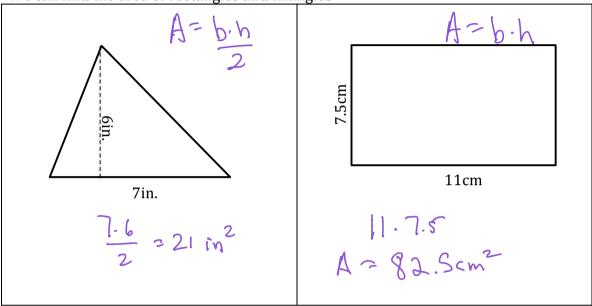
Mr. Rogove

Date: _____

LEARNING OBJECTIVE: We will find the surface area of three dimensional objects including triangular and rectangular prisms. (G7M3L21)

ACTIVATING PRIOR KNOWLEDGE

We can find the area of rectangles and triangles



CONCEPT DEVELOPMENT

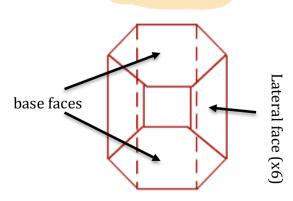
A right triangular prism is a three-dimensional object that has a triangle top and bottom. Its three other sides are rectangles.

A right rectangular prism is a three-dimensional object that has rectangles on top and bottom. Its four other sides are also rectangles.

Base faces: the top and the bottom of a right prism are called the base faces.

Lateral faces: The rectangles that form the 'sides' are lateral faces.

trangle rectangle hexagon etc.

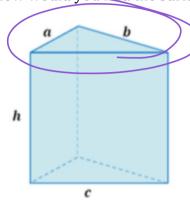


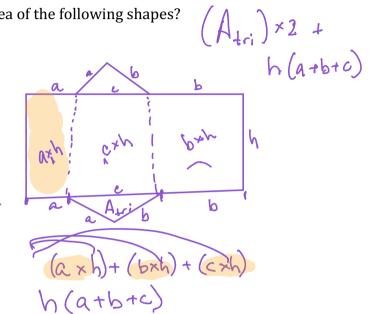
Date: _____

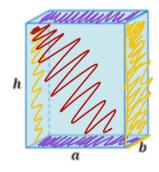
What is a **net**? How can it help?

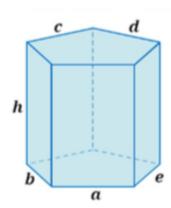
2 Dimensional "Plat" version of the surfaces of a 3 Dimensional object

How would you find the surface area of the following shapes?









Math 7.1

Mr. Rogove

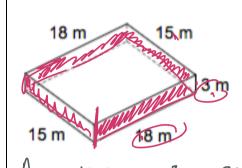
Date:

GUIDED PRACTICE

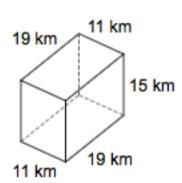
Steps for Finding the Surface Area of a Right Prism

- 1. Identify all relevant measurements.
- 2. Identify the shape of the base. Find the area of the base faces.
- 3. Find the area of the lateral faces.
- 4. Add the area of the base faces and the lateral faces.

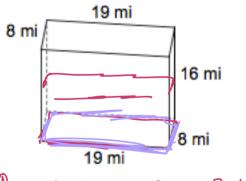
RECTANGULAR PRISM



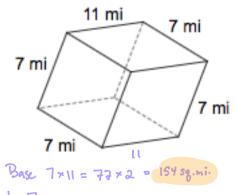
$$SA = 738 \text{ m}^2$$



1318km2



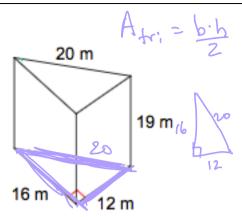
h=16



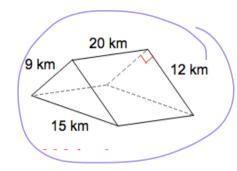
Name:_____

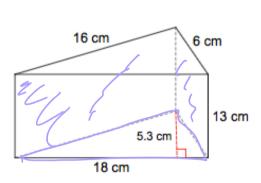
Math 7.1

Mr. Rogove Date: _____

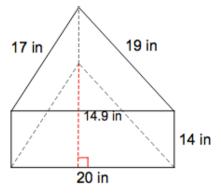


$$A_{tri} = \frac{1}{2}(16.12) = 96 \times 2 = 192 \text{ sq. meters}$$



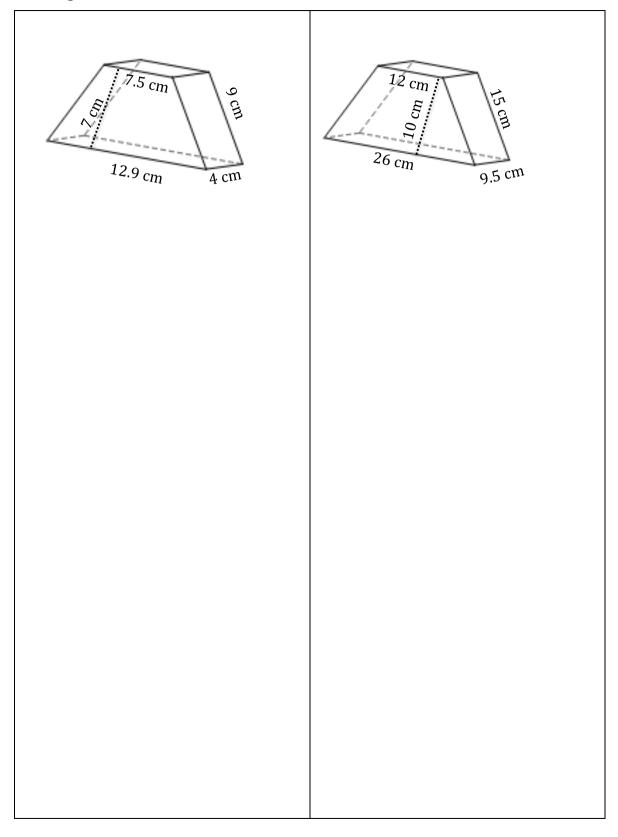


4



Name:	Math 7.1

Mr. Rogove Date: _____



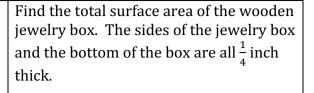
G7M3L21: Surface Area

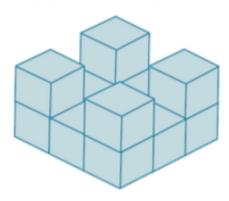
Name:		

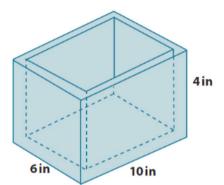
Math 7.1

Mr. Rogove Date: _____

There are 13 cubes glued together forming the solid in the diagram. The edges of each cube are $\frac{1}{2}$ inch in length. Find the surface area of the solid.







G7M3L21: Surface Area

Name:	Math 7.1
Mr. Rogove	Date:

INDEPENDENT PRACTICE

Kuta software sheet for independent practice. Don't go too heavy on lesson 22.

CLOSURE

NOTES

This maps to lesson 21 and part of 22 from module 3, Grade 7. Will also borrow from lesson 23 and 24 from Module 6.

G7M3L21: Surface Area