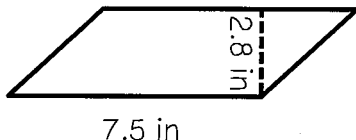


## GEOMETRY UNIT STUDY GUIDE

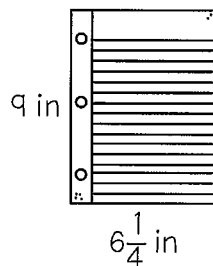
Solve each of the problems below. These represent the types of questions on your test. Be sure to ask questions if you need more help with a topic.

### I CAN FIND THE AREA OF 2D FIGURES.

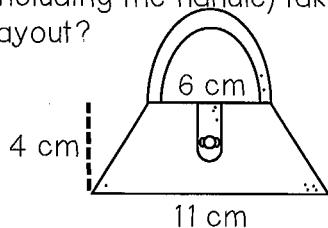
1. Find the area of the parallelogram.



2. A piece of notebook paper has an irregular size to it. What is the area of the notebook paper?



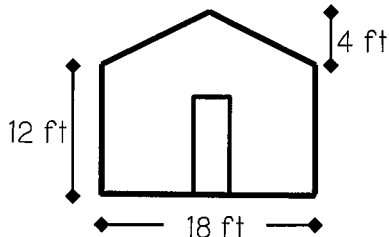
3. A magazine picture of a purse is shown below. How much area does the purse (not including the handle) take up in the magazine layout?



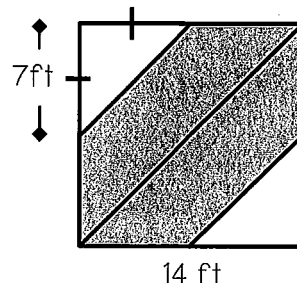
4. A triangular flag has a height of 18 inches and a base of 12 inches. How many square feet of material is the flag?

### I CAN FIND THE AREA OF 2D SHAPES IN THE REAL WORLD.

5. The front of a home is being painted, not including the door. The door measures 9 ft by 2 ft. How many square feet will need to be painted?

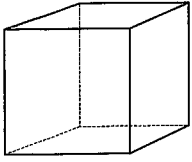


6. A square playground is covered with pebbles, except for two equal-sized triangular portions that have grass. How many square feet do the pebbles cover?

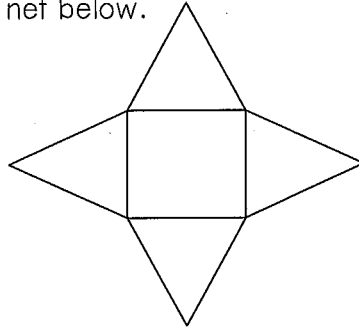


## I CAN REPRESENT 3D FIGURES WITH NETS.

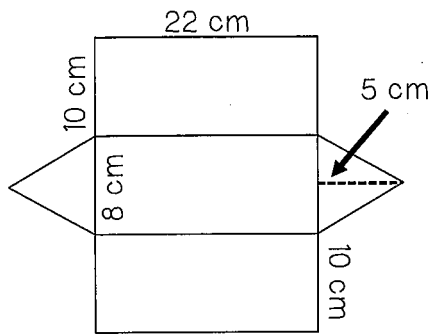
7. Sketch a net that will form the 3D figure below.



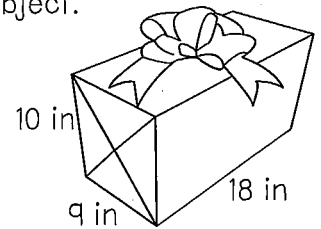
8. Sketch the 3D figure that is formed by the net below.



9. Sketch and label the 3D object using the dimensions from the net.

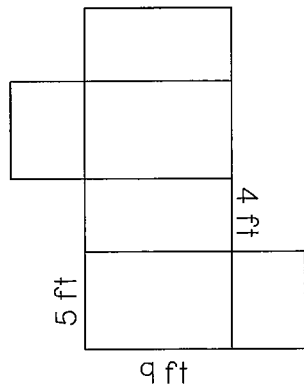


10. Sketch and label the net using the dimensions from the 3D object.

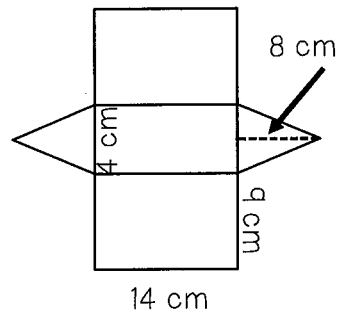


## I CAN USE NETS TO FIND SURFACE AREA.

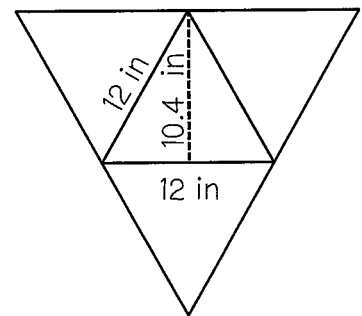
11. Determine the surface area of the rectangular prism net below.



12. What is the total surface area of the triangular prism?

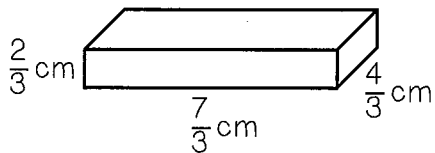


13. How many square inches will it take to cover the outside of the triangular pyramid below?

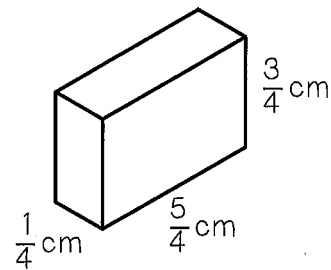


## I CAN FIND THE VOLUME OF A RECTANGULAR PRISM BY PACKING IT WITH CUBES.

14. How many small cubes, with a side length of  $\frac{1}{3}$  cm, will fill the larger rectangular prism below?



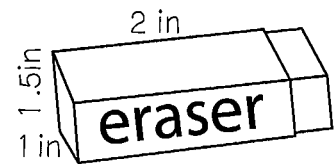
15. How many small cubes, with a side length of  $\frac{1}{4}$  cm, will fill the larger rectangular prism below?



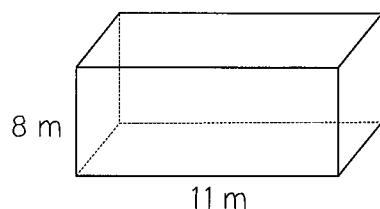
## I CAN APPLY A FORMULA TO FIND VOLUME.

16. Madison is building a toy box that measures 2 ft by 5 ft by 3.5 ft. What is the volume of the toy box?

17. A school supply company packages the erasers shown below in boxes of 12. How many cubic inches does the package contain?



18. What is the missing width of the object below, if the volume is 352 cubic meters?



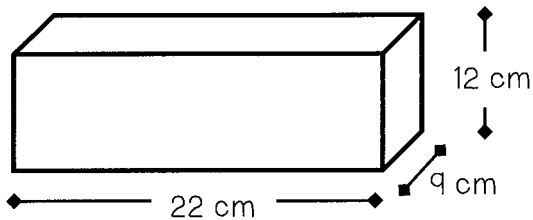
19. A rectangular prism has a base with an area of  $200 \text{ cm}^2$ . The volume of the prism is  $3,000 \text{ cm}^3$ . What is the height of the prism?

## I CAN FIND VOLUME IN REAL LIFE PROBLEMS.

20. A bathtub, in the shape of a rectangular prism, measures 8 feet long by 3 feet wide by 2 feet deep. If the tub fills at a rate of 5 cubic feet per minute, then how many minutes will it take to fill the bathtub.

21. A farmer is filling a hole in his farm with dirt. He measures the hole to be in the shape of a rectangular prism measuring 12 feet by 4 feet by 3 feet. If the cost of dirt is \$1.25 per cubic foot, then how much will he spend?

22. A terrarium is filled one-fourth of the way with dirt. How many cubic centimeters of dirt does the terrarium have?



23. A large box will hold 1,000 cubic inches. A small box measures 5 inches by 5 inches by 5 inches. How many smaller boxes will the large box hold?

**I'VE GOT THIS:**

**I NEED TO STUDY:**