

Unit 8 Study Guide – Measure Figures

Write the formulas on the blank lines below. Memorize the formulas for Area and Circumference of Circles for the test. The other formulas will be supplied on the test, you need to know how to use them.

Circumference of a circle. $C =$ _____

Area of a circle. $A =$ _____

Volume of a prism $V =$ _____

Volume of a pyramid $V =$ _____

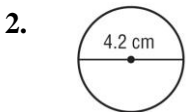
Surface area of a prism $S.A. =$ _____

Surface area of a pyramid $S.A. =$ _____

What is the circumference of each circle? Round to the nearest tenth if necessary. Show all work and label your answer with the units.



$C =$ _____

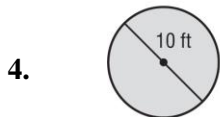


$C =$ _____

What is the area of each circle? Round to the nearest tenth if necessary. Show all work and label your answer with the units.



$A =$ _____



$A =$ _____

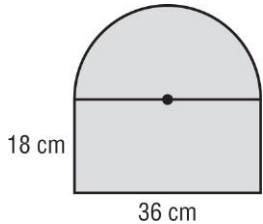
5. If a circle has a diameter of 32 inches, what is the AREA? Round to the nearest tenth if necessary. Show all work and label your answer with the units.

$A =$ _____

6. What is the **circumference** of a pizza with a diameter of 14 inches? Round to the nearest tenth. **Show all work and label your answer with the units.**

$C =$ _____

7. What is the **area** of the figure? Round to the nearest tenth. **Show all work and label your answer with the units.**

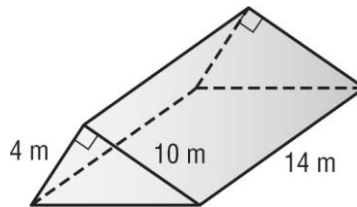
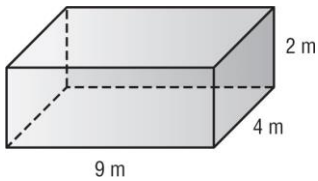


$A =$ _____

Find the **VOLUME** of each figure (8 – 11). Round to the nearest tenth if necessary. Use the formula for volume at the beginning of the worksheet. **Show all work and label your answer with the units.**

8. What is the **volume** of the rectangular prism?

9. What is the **volume** of the right triangular prism?

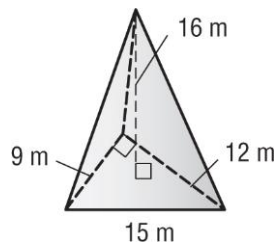
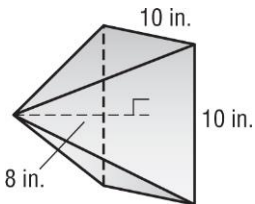


$V =$ _____

$V =$ _____

10. What is the **volume** of the square pyramid?

11. What is the **volume** of the right triangular pyramid?



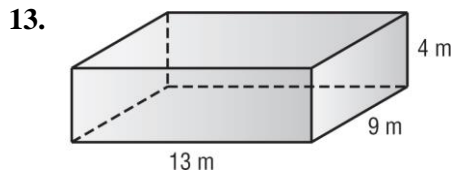
$V =$ _____

$V =$ _____

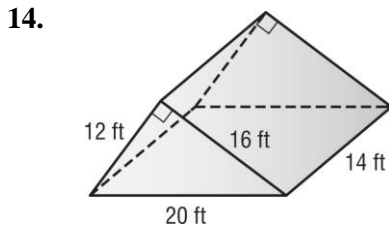
12. A cereal box is shaped like a rectangular prism. It has a length of 6 inches and a height of 10 inches. The volume of the cereal box is 150 cubic inches. **Find the width** of the cereal box. **Show all work and label your answer with the units.**

$w =$ _____

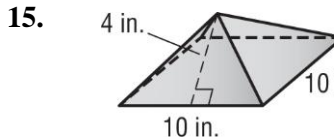
For Exercises 13 - 15, what is the **surface area** of each figure? Round to the nearest tenth if necessary. Use the formula for surface area at the beginning of the worksheet. **Show all work and label your answer with the units.**



S.A. = _____



S.A. = _____



S.A. = _____