LESSON 2 WORKSHEET **ANSWERS**
SURVIVAL SCIENCE

SURVIVING THE FLOOD

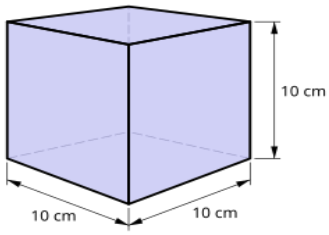
1. Calculate the volume/capacity of Noah's Ark in cubic cubits using the Biblical measures.

• 300 CUBITS LONG	137 METERS LONG
• 50 CUBITS WIDE	23 METERS WIDE
• 30 CUBITS TALL	14 METERS TALL

EQUATIONS: 300 cubits x 50 cubits x 30 cubits = ANSWER: 450,000 cu^3

137 meters x 23 meters x 14 meters = ANSWER: 44,114 m^3

CONVERSIONS WITHIN THE METRIC SYSTEM (BASE 10)



2. **Convert** (using a perfect cube measuring 10 cm per side)

PROBLEM 2A:

a) What is the **length** of the sides: 10 cm
b) What is the **length** of the sides: 100 mm

Conversion Equation: 10 cm x 10 mm/cm = 100 mm (cancel cm)

Conversion Question: 10 cm = 1 decimeters (dm)

PROBLEM 2B:

c) What is the **area** of one side of the cube (sq cm): 100 sq cm; What is the area in sq mm 10,000 sq mm (see lesson materials)

Equation: 10 **x** 10 **=** 100 sq cm (cm^2)

Equation: 100 **x** 100 **=** 10,000 sq mm (mm^2)

THREE DIMENSION (3D) PROBLEMS USING THE SAME CUBE AS ABOVE

PROBLEM 2C: Equation in cm: 10 **x** 10 **x** 10 **=** 1000 sq cm^3

d) What is the **volume** of the cube in cubic centimeters?

To find cubic centimeters (cm^3) multiply l x w x h. ANSWER: 1000 sq cm^3

PROBLEM 2D: Equation in mm: 100 mm **x** 100 mm **x** 100 mm **=** 1,000,000 mm^3

e) Find the volume of the cube in cubic millimeters?
Use mm in the equation (not cm). l x w x h ANSWER: 1,000,000 mm^3