Integrated Math 2

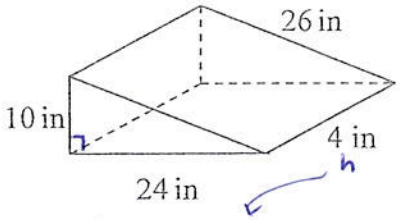
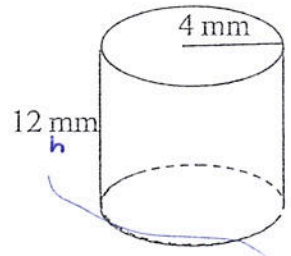
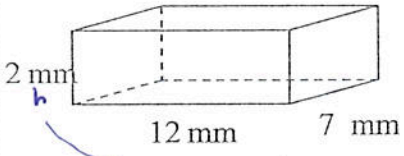
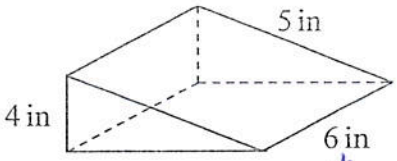
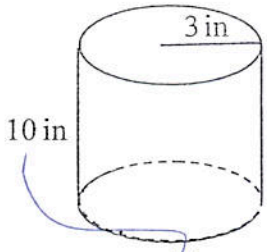
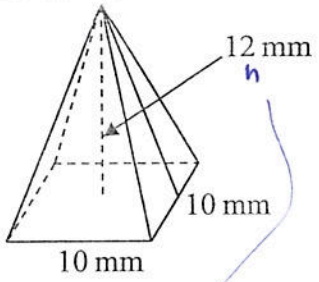
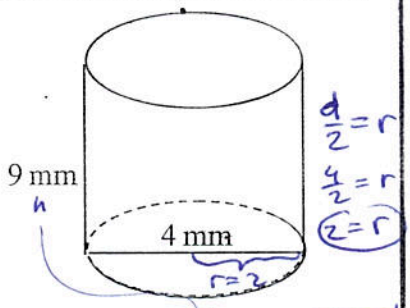
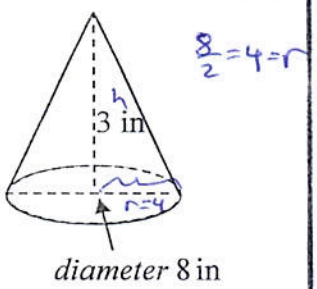
Name: Key

Date: _____

Tic-Tac-Toe

Directions: *The shortest partner will go first. The first person will solve a problem, if it is correct, he/she can put an X or an O in a box. Show all work in the spaces below. If you and your partner determine later in the game that an answer is wrong, you must change the X or O to the other symbol.*

Game 1

An edge of a cube has a length of 5 in. Find its volume. $V = 5 \cdot 5 \cdot 5$ $= 125 \text{ in}^3$	Find the volume of the solid.  $V = \frac{1}{2}(24)(10) \cdot 4$ $= 480 \text{ m}^3$	Find the volume of the solid.  $V = \pi(4)^2 \cdot 12$ $= 192\pi \text{ mm}^3$
Find the volume of the solid.  $V = 12(7)(2)$ $= 168 \text{ mm}^3$	Find the volume of the solid.  $V = \frac{1}{2}(3)(4) \cdot 6$ $= 36 \text{ in}^3$	Find the volume of the solid.  $V = \pi(3)^2 10$ $= 90\pi \text{ in}^3$
Find the volume of the solid.  $V = \frac{1}{3}(10)(10)(12)$ $= 400 \text{ mm}^3$	Find the volume of the solid.  $\frac{4}{2} = r$ $2 = r$ $V = \pi(2)^2 \cdot 9 = 36\pi \text{ mm}^3$	Find the volume of the solid.  $V = \frac{1}{3}\pi(4)^2 3$ $= 16\pi \text{ in}^3$

Answer Key

168 mm^3 ✓	125 in^3 ✓	$192\pi \text{ mm}^3$ ✓
$90\pi \text{ in}^3$ ✓	36 in^3 ✓	400 mm^3 ✓
$16\pi \text{ in}^3$ ✓	$36\pi \text{ mm}^3$ ✓	480 in^3 ✓