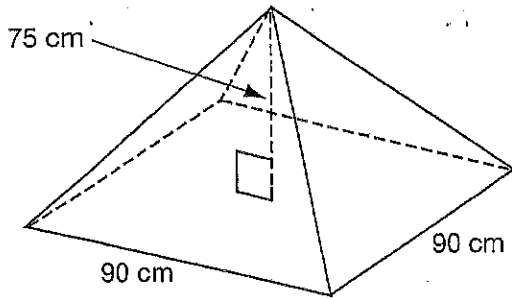


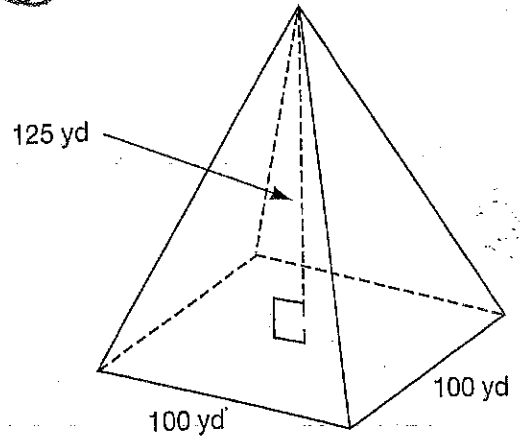
Name \_\_\_\_\_

# Volume of Pyramids

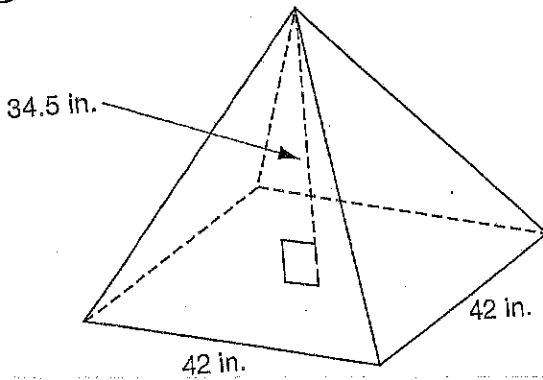
①



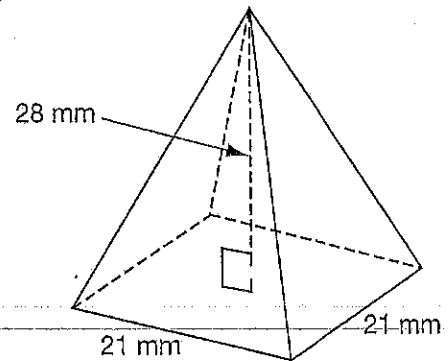
②



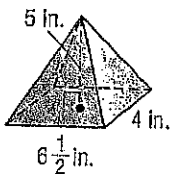
③



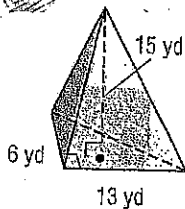
④



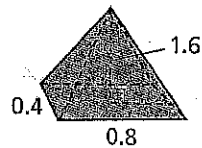
⑤



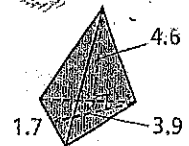
⑥



⑦



⑧



⑨

octagonal pyramid: base area,  $120 \text{ ft}^2$ ; height, 19 ft

⑩

triangular pyramid: triangle base, 10 cm; triangle height, 7 cm;  
prism height, 15 cm

1. The pyramid at the entrance to the Louvre in Paris has a height of 72 feet and a square base that is 112 feet long on each side. What is the volume of this pyramid?

2. A triangular pyramid has a height of 6 feet. The triangular base has a height of 6 feet and a base of 6 feet. Explain whether doubling the height of the base would double the volume of the pyramid? (Hint: work both pyramids out below then explain your reasoning)

---

3. The Pyramid Arena in Memphis, TN, is 321 feet tall and has a square base that is 200 yards on each side.

a) What is the volume in cubic feet of the arena?

b) How many cubic feet are in one cubic yard? (Hint: look this up on your computer)

c) What is the volume in cubic yards of the arena to the nearest hundredth?