DATA DICTIONARY

NAME (final outputs)

userFirstName

numGallons

TYPE

DESCRIPTION

Input by user

Input by user

pondVolume float numGallons * 0.13368

pondRadius float Math.sqrt (pondVolume / (3.14159265 * pondHeight));

pondDiameter float pondRadius * 2

pondConcreteArea float PI * (pondRadius * pondRadius)

domeDiameterfloat3 * pondDiameterdomeRadiusfloat(domeDiameter * .5)

domeMinusPondConcreteArea float PI * (domeRadius squared) - pondConcreteArea

numSeatsWood integer (domeMinusPondConcreteArea * .5) / woodSeat numSeatsPlastic integer (domeMinusPondConcreteArea * .5) / plasticSeat

seatChoice integer prompt 1 or 2

seatFinal integer if 1 = numSeatsWood else = numSeatsPlastic

(document.write if one = wooden chair else two = plastic chair)

bidChoice integer 1 through 6

bid1float37.75 * pondConcreteAreabid2float38.95 * pondConcreteAreabid3float44.99 * pondConcreteAreabid4float45.35 * pondConcreteAreabid5float22.85 * pondConcreteArea

pondConcreteCost float choice bid1 through bid5 (switch statement)

CONSTANT

pondHeightinteger11 (feet)woodSeatfloat5.5plasticSeatfloat4.8

