





| Area | Multiplied by 4 |
|------------------------|------------------------------------|
| Surface Area | Multiplied by 4 |
| Volume | Multiplied by 8 |
| Surface Area Volume | Multiplied by 4 Multiplied by 8 |









| Leonardo's Horse scale factor = 3 | | | |
|--------------------------------------|----------|-----------|--|
| height | 8 feet | 24 feet | |
| Length of mane | 4.5 feet | | |
| Size of hoofprint | 48 sq in | | |
| Width of horseshoe | | 16 inches | |
| Weight (volume) | | 15 tons | |

| | Leonardo's scale facto | Horse or = 3 | |
|--------------------|---------------------------|-----------------|---|
| height | 8 foot | 24 foot |] |
| Length of mane | 4.5 feet | 3*4.5 = 13.5 | _ |
| Size of hoofprint | 48 sq in | 9*48=432 | _ |
| Width of horseshoe | 16/3 = 5.333 | 16 inches | - |
| Weight (volume) | 15/27 = .5555 | 15 tons | - |





| Moro Tunical | Droblem T | ue eimiler brieke | |
|--------------------------------|--------------|-------------------|---|
| more rypical | Problem - TV | VO SIMILAI DIICKS | |
| Surface area | 58 sq in | 362.5 sq in | |
| length | x | 5 | _ |
| width | 3.5 | у | _ |
| volume | 28 cu in | z | |
| Scale factor Small to large | S | | |
| <u></u> | | | ! |

| | Two bricks | 58s ² = 362.5 s = 2.5 | |
|--------------------------------|------------|-------------------------------------|---|
| Surface area | 58 sq in | 362.5 sq in = s ² 58 | |
| length | x | 5 = s*x | |
| width | 3.5 | y = s*3.5 | |
| volume | 28 cu in | $\frac{z}{z} = s^{3*}28$ | |
| Scale factor Small to large | | | |
| | | | 1 |

| | Two bricks | | |
|--------------------------------|-------------------------------------|---|----|
| Surface area | 58 sq in | 362.5 sq in | |
| length | x = 5/2.5 = 2 | 5 | - |
| width | 3.5 | y = 3.5*2.5 = 8.75 | |
| volume | 28 cu in | <mark>z</mark> = 28*2.5 ³ = 437.5 | |
| Scale factor Small to large | 58s ² = 362.5 s = 2.5 | | - |
| · | · | | 15 |

















