

Additional BSA Questions

1. A client weighing 83 kg and 185 cm tall. Calculate this client's BSA. Round to the nearest hundredth.

$$\frac{83 \times 185}{3600} = \sqrt{4.2652777} = 2.0652548 \sim 2.06 \text{ m}^2$$

2. A client weighing 120 lbs and 5 ft 6 in tall. Calculate this client's BSA. Round to the nearest hundredth.

$$5 \times 12 = 60 \text{ ft} = 66 \text{ in} \times 2.54 = 167.64 \text{ cm}$$

$$\frac{120 \text{ lbs}}{1} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 54.545454 \text{ kg}$$

$$\frac{54.545454 \times 167.64}{3600} = \sqrt{2.5399999} = 1.5937377 \sim 1.59 \text{ m}^2$$

3. A client weighing 23 lbs and 31 in tall. Calculate this client's BSA. Round to the nearest hundredth.

$$31 \text{ in} \times 2.54 = 78.74 \text{ cm}$$

$$\frac{23 \text{ lbs}}{1} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 10.454545 \text{ kg}$$

$$\frac{10.454545 \times 78.74}{3600} = \sqrt{0.2286641} = 0.4781883 \sim 0.48 \text{ m}^2$$

4. A client weighing 54 kg and 164 cm tall. Calculate this client's BSA. Round to the nearest hundredth.

$$\frac{54 \times 164}{3600} = \sqrt{2.46} = 1.5684387 \sim 1.57 \text{ m}^2$$

5. A client weighing 238 lbs and 6 ft 6 in tall. Calculate this client's BSA. Round to the nearest hundredth.

$$6 \times 12 = 72 \text{ ft} = 78 \text{ in} \times 2.54 = 198.12 \text{ cm}$$

$$\frac{238 \text{ lbs}}{1} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 108.18181 \text{ kg}$$

$$\frac{108.18181 \times 198.12}{3600} = \sqrt{5.9536055} = 2.4400011 \sim 2.44 \text{ m}^2$$

6. A client weighing 20 kg and 115 cm tall. Calculate this client's BSA. Round to the nearest hundredth: tenth.

$$\frac{20 \times 115}{3600} = \sqrt{0.6388888} = 0.7993051 \sim 0.8 \text{ m}^2$$

7. A client weighing 164 lbs and 5 ft 9 in tall. Calculate this client's BSA. Round to the nearest hundredth.

$$5 \times 12 = 60 + 9 = 69 \text{ in} \times 2.54 = 175.26 \text{ cm}$$

$$\frac{164 \text{ lbs}}{1} \times \frac{1}{2.2 \text{ lbs}} = 74.545454 \text{ kg}$$

$$\frac{74.545454 \times 175.26}{3600} = \sqrt{3.6291211} = 1.9050252 \sim 1.91 \text{ m}^2$$

8. A client weighing 112 lbs and 4 ft 10 in tall. Calculate this client's BSA. Round to the nearest hundredth.

$$4 \times 12 = 48 + 10 = 58 \text{ in} \times 2.54 = 147.32 \text{ cm}$$

$$\frac{112 \text{ lbs}}{1} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 50.90909 \text{ kg}$$

$$\frac{50.90909 \times 147.32}{3600} = \sqrt{2.083313} = 1.4433686 \sim 1.44 \text{ m}^2$$

9. A client weighing 173 lbs and 6 ft tall. Calculate this client's BSA. Round to the nearest hundredth: whole number

$$6 \times 12 = 72 \text{ in} \times 2.54 = 182.88 \text{ cm}$$

$$\frac{173 \text{ lbs}}{1} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 78.636363 \text{ kg}$$

$$\frac{78.636363 \times 182.88}{3600} = \sqrt{3.9947272} = 1.9986813 \sim 2 \text{ m}^2$$

10. A client weighing 148 lbs and 5 ft 1 in tall. Calculate this client's BSA. Round to the nearest hundredth: tenth.

$$5 \times 12 = 60 + 1 = 61 \text{ in} \times 2.54 = 154.94 \text{ cm}$$

$$\frac{148 \text{ lbs}}{1} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 67.272727 \text{ kg}$$

$$\frac{67.272727 \times 154.94}{3600} = \sqrt{2.8953433} = 1.7015708 \sim 1.7 \text{ m}^2$$