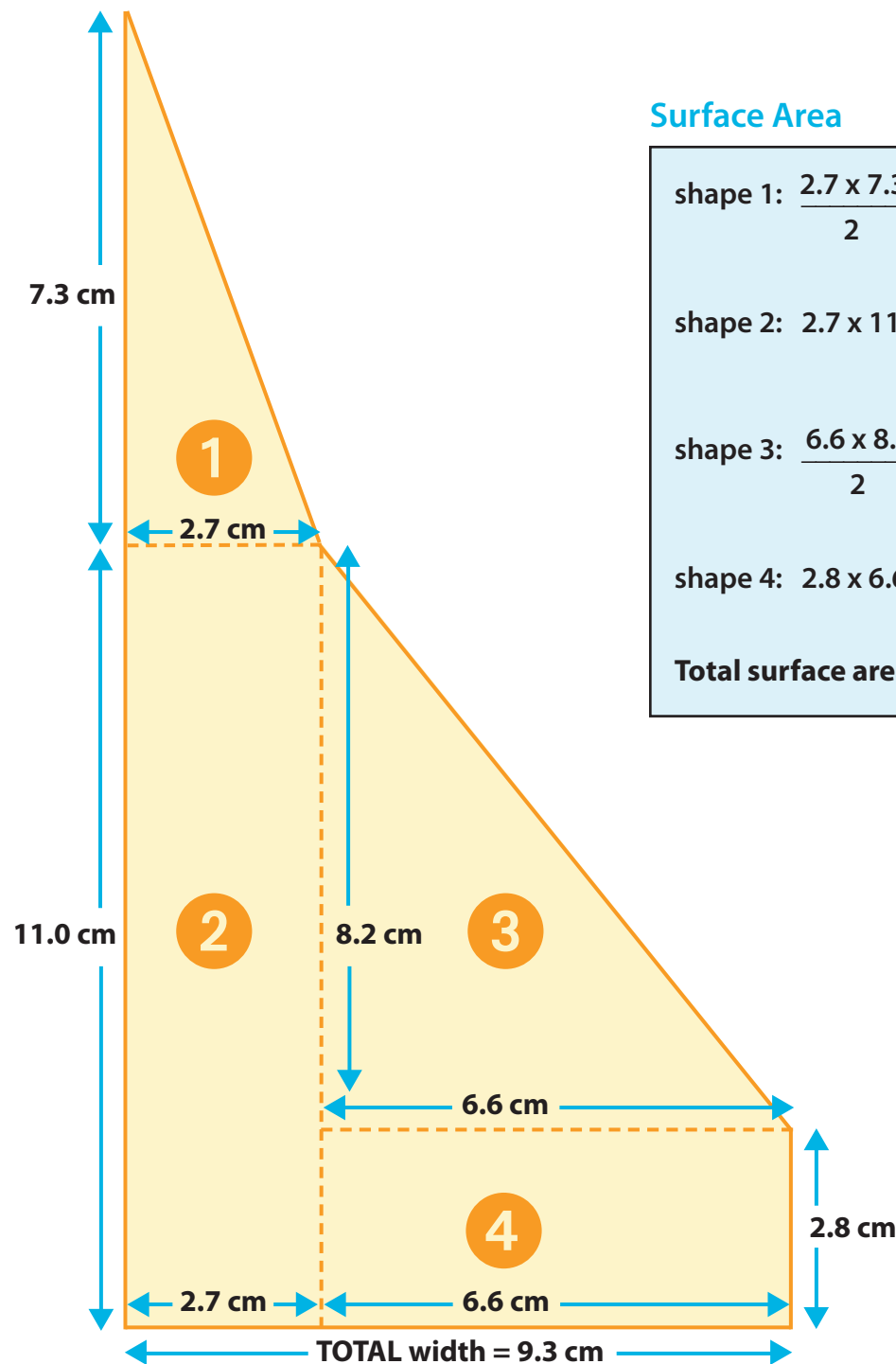


Space Shuttle Math: Answer Key

Mass

Object	Approximate Mass (kg)	Approximate number of objects to equal the mass of the space shuttle at lift-off
Statue of Liberty	204,117	10
Boeing 747 Airplane	158,757	12.9
School Bus	11,340	180
African Elephant	5,500	371.1



Surface Area

$$\text{shape 1: } \frac{2.7 \times 7.3}{2} = 9.9 \text{ cm}^2$$

$$\text{shape 2: } 2.7 \times 11.0 = 29.7 \text{ cm}^2$$

$$\text{shape 3: } \frac{6.6 \times 8.2}{2} = 27.1 \text{ cm}^2$$

$$\text{shape 4: } 2.8 \times 6.6 = 18.5 \text{ cm}^2$$

$$\text{Total surface area} = 85.2 \text{ cm}^2$$

1cm = 1m