|  |  |
| --- | --- |
| **Fill in the Blanks** | **Harder Similar Areas and Volumes** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** |  | $$4$$ | $$8$$ |  | **Scale Factor** |  | $$9$$ |  |
| **Shape A** | $$3 cm$$ | $$10 cm^{2}$$ | $$25 cm^{3}$$ |  | **Shape A** | $$4 cm$$ | $$20 cm^{2}$$ | $$70 cm^{3}$$ |
| **Shape B** |  |  |  |  | **Shape B** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** |  |  | $$125$$ |  | **Scale Factor** |  |  |  |
| **Shape A** | $$0.5 m$$ | $$2 m^{2}$$ | $$5 m^{3}$$ |  | **Shape A** | $$4.5 mm$$ | $$20 mm^{2}$$ | $$35 mm^{3}$$ |
| **Shape B** |  |  |  |  | **Shape B** |  | $$180 mm^{2}$$ |  |
|  |  |  |  |  |  |  |  |  |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** |  |  |  |  | **Scale Factor** |  |  |  |
| **Shape A** | $$2.5 cm$$ | $$8 cm^{2}$$ | $$20 cm^{3}$$ |  | **Shape A** | $$0.6 m$$ | $$2.8 m^{2}$$ |  |
| **Shape B** |  |  | $$67.5 cm^{3}$$ |  | **Shape B** |  | $$0.7 m^{2}$$ | $$1.4 m^{2}$$ |
|  |  |  |  |  |  |  |  |  |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** |  |  |  |  | **Scale Factor** |  |  |  |
| **Shape A** |  | $$1.8 cm^{2}$$ |  |  | **Shape A** | $$7.5 cm$$ |  | $$135 cm^{3}$$ |
| **Shape B** | $$2 cm$$ | $$5 cm^{2}$$ | $$25 cm^{3}$$ |  | **Shape B** |  | $$22 cm^{2}$$ | $$40 cm^{3}$$ |