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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** | $$2$$ | $$4$$ | $$8$$ |  | **Scale Factor** | $$3$$ | $$9$$ | $$27$$ |
| **Shape A** | $$5 cm$$ | $$30 cm^{2}$$ | $$100 cm^{3}$$ |  | **Shape A** | $$4 cm$$ | $$16 cm^{2}$$ | $$50 cm^{3}$$ |
| **Shape B** | $$10 cm$$ | $$120 cm^{2}$$ |  |  | **Shape B** | $$12 cm$$ |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** | $$2$$ |  |  |  | **Scale Factor** |  |  |  |
| **Shape A** | $$15 mm$$ | $$35 mm^{2}$$ | $$64 mm^{3}$$ |  | **Shape A** | $$2 m$$ | $$1.5 m^{2}$$ | $$16 m^{3}$$ |
| **Shape B** | $$30 mm$$ |  |  |  | **Shape B** | $$5 m$$ |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** |  |  |  |  | **Scale Factor** |  |  |  |
| **Shape A** | $$4 cm$$ |  |  |  | **Shape A** | $$2.4 m$$ |  |  |
| **Shape B** | $$12 cm$$ | $$72 cm^{2}$$ | $$540 cm^{3}$$ |  | **Shape B** | $$1.2 m$$ | $$4 m^{2}$$ | $$5.6 m^{3}$$ |
|  |  |  |  |  |  |  |  |  |
|  | **Length** | **Area** | **Volume** |  |  | **Length** | **Area** | **Volume** |
| **Scale Factor** | $$1.5$$ |  |  |  | **Scale Factor** | $$\frac{4}{3}$$ |  |  |
| **Shape A** |  |  |  |  | **Shape A** | $$1.8 cm$$ |  | $$54 cm^{3}$$ |
| **Shape B** | $$7.5 cm$$ | $$45 cm^{2}$$ | $$202.5 cm^{3}$$ |  | **Shape B** |  | $$80 cm^{2}$$ |  |