

Fill in the Blanks Harder Similar Areas and Volumes

| | Length | Area | Volume |
|---------------------|--------|--------------------|---------------------|
| Scale Factor | 2 | 4 | 8 |
| Shape A | 3 cm | 10 cm ² | 25 cm ³ |
| Shape B | 6 cm | 40 cm ² | 200 cm ³ |

| | Length | Area | Volume |
|---------------------|--------|---------------------|----------------------|
| Scale Factor | 3 | 9 | 27 |
| Shape A | 4 cm | 20 cm ² | 70 cm ³ |
| Shape B | 12 cm | 180 cm ² | 1890 cm ³ |

| | Length | Area | Volume |
|---------------------|--------|-------------------|--------------------|
| Scale Factor | 5 | 25 | 125 |
| Shape A | 0.5 m | 2 m ² | 5 m ³ |
| Shape B | 2.5 m | 50 m ² | 625 m ³ |

| | Length | Area | Volume |
|---------------------|---------|---------------------|---------------------|
| Scale Factor | 3 | 9 | 27 |
| Shape A | 4.5 mm | 20 mm ² | 35 mm ³ |
| Shape B | 13.5 mm | 180 mm ² | 945 mm ³ |

| | Length | Area | Volume |
|---------------------|---------------|--------------------|----------------------|
| Scale Factor | $\frac{3}{2}$ | $\frac{9}{4}$ | $\frac{27}{8}$ |
| Shape A | 2.5 cm | 8 cm ² | 20 cm ³ |
| Shape B | 3.75 cm | 18 cm ² | 67.5 cm ³ |

| | Length | Area | Volume |
|---------------------|---------------|--------------------|---------------------|
| Scale Factor | $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{1}{8}$ |
| Shape A | 0.6 m | 2.8 m ² | 11.2 m ³ |
| Shape B | 0.3 m | 0.7 m ² | 1.4 m ³ |

| | Length | Area | Volume |
|---------------------|---------------|---------------------|---------------------|
| Scale Factor | $\frac{5}{3}$ | $\frac{25}{9}$ | $\frac{125}{27}$ |
| Shape A | 1.2 cm | 1.8 cm ² | 5.4 cm ³ |
| Shape B | 2 cm | 5 cm ² | 25 cm ³ |

| | Length | Area | Volume |
|---------------------|---------------|----------------------|---------------------|
| Scale Factor | $\frac{2}{3}$ | $\frac{4}{9}$ | $\frac{8}{27}$ |
| Shape A | 7.5 cm | 49.5 cm ² | 135 cm ³ |
| Shape B | 5 cm | 22 cm ² | 40 cm ³ |