

# Fill in the Blanks

# Similar Areas and Volumes

	Length	Area	Volume
<b>Scale Factor</b>	2	4	8
<b>Shape A</b>	5 cm	30 cm <sup>2</sup>	100 cm <sup>3</sup>
<b>Shape B</b>	10 cm	120 cm <sup>2</sup>	800 cm <sup>3</sup>

	Length	Area	Volume
<b>Scale Factor</b>	3	9	27
<b>Shape A</b>	4 cm	16 cm <sup>2</sup>	50 cm <sup>3</sup>
<b>Shape B</b>	12 cm	144 cm <sup>2</sup>	1350 cm <sup>3</sup>

	Length	Area	Volume
<b>Scale Factor</b>	2	4	8
<b>Shape A</b>	15 mm	35 mm <sup>2</sup>	64 mm <sup>3</sup>
<b>Shape B</b>	30 mm	140 mm <sup>2</sup>	512 mm <sup>3</sup>

	Length	Area	Volume
<b>Scale Factor</b>	$\frac{5}{2}$	$\frac{25}{4}$	$\frac{125}{8}$
<b>Shape A</b>	2 m	1.5 m <sup>2</sup>	16 m <sup>3</sup>
<b>Shape B</b>	5 m	9.375 m <sup>2</sup>	250 m <sup>3</sup>

	Length	Area	Volume
<b>Scale Factor</b>	3	9	27
<b>Shape A</b>	4 cm	8 cm <sup>2</sup>	20 cm <sup>3</sup>
<b>Shape B</b>	12 cm	72 cm <sup>2</sup>	540 cm <sup>3</sup>

	Length	Area	Volume
<b>Scale Factor</b>	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$
<b>Shape A</b>	2.4 m	16 m <sup>2</sup>	44.8 m <sup>3</sup>
<b>Shape B</b>	1.2 m	4 m <sup>2</sup>	5.6 m <sup>3</sup>

	Length	Area	Volume
<b>Scale Factor</b>	1.5	2.25	3.375
<b>Shape A</b>	5 cm	20 cm <sup>2</sup>	60 cm <sup>3</sup>
<b>Shape B</b>	7.5 cm	45 cm <sup>2</sup>	202.5 cm <sup>3</sup>

	Length	Area	Volume
<b>Scale Factor</b>	$\frac{4}{3}$	$\frac{16}{9}$	$\frac{64}{27}$
<b>Shape A</b>	1.8 cm	45 cm <sup>2</sup>	54 cm <sup>3</sup>
<b>Shape B</b>	2.4 cm	80 cm <sup>2</sup>	128 cm <sup>3</sup>