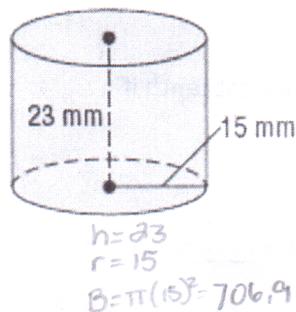


8. Fill in the following chart.

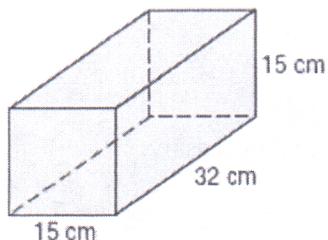
Scale Factor	3:6	2:7	6:5	4:5
Ratio of Perimeters	3:4	2:7	6:5	4:5
Ratio of Areas	9:36	4:49	36:25	16:25
Ratio of Volumes	27:216	8:343	216:125	64:125

9. Find the lateral area, surface area, and volume of the cylinder. Round to the nearest tenth if necessary.



$$\begin{aligned}
 L &= 2\pi rh \\
 &= 2\pi(15)(23) \\
 L &= 2167.7 \\
 S &= 2\pi rh + 2\pi r^2 \\
 &= 2\pi(15)(23) + 2\pi(15)^2 \\
 &= 2167.7 + 1413.7 \\
 S &= 3581.4 \\
 V &= \pi r^2 h \\
 &= \pi(15)^2(23) \\
 V &= 16257.7
 \end{aligned}$$

10. Find the lateral area, surface area, and volume of the rectangular prism. Round to the nearest tenth if necessary.



$$\begin{aligned}
 L &= Ph \\
 &= 60(32) \\
 L &= 1920 \\
 S &= Ph + 2B \\
 &= 1920 + 2(225) \\
 S &= 2370 \\
 V &= Bh \\
 &= 225(32) \\
 V &= 7200
 \end{aligned}$$