

Name _____

Volume of Pentagonal and Hexagonal Prisms Answer Key

1. $\frac{1}{2} \times 5 \times 5 \times 3.4 \times 8 = 340 \text{ cm}^3$

2. $(3\sqrt{3}/2) \times 9^2 \times 8 = 1,684.6 \text{ cm}^3$

3. $\frac{1}{2} \times 5 \times 4 \times 2.8 \times 6 = 168 \text{ cm}^3$

4. $(3\sqrt{3}/2) \times 5^2 \times 10 = 1.5 \times 1.73 \times 25 \times 10 = 648.8 \text{ cm}^3$

5. $\frac{1}{2} \times 5 \times 7 \times 4.8 \times 12 = 1,008 \text{ cm}^3$

6. $(3\sqrt{3}/2) \times 7^2 \times 12 = 1,523.9 \text{ cm}^3$

7. $\frac{1}{2} \times 5 \times 9 \times 6.2 \times 10 = 1,395 \text{ cm}^3$

8. $(3\sqrt{3}/2) \times 4^2 \times 6 = 249.8 \text{ cm}^3$

9. $\frac{1}{2} \times 5 \times 10 \times 7 \times 15 = 2,625 \text{ cm}^3$