

Name _____

The Toy Builder's Workshop (Solid Volume) Answer Key

1. $20 \times 12 \times x = 2,400 \rightarrow 240x = 2,400 \rightarrow x = 10 \text{ cm}$

2. $2,000 \div 125 = 16 \text{ blocks}$

3. $40 \times 30 \times x = 24,000 \rightarrow 1,200x = 24,000 \rightarrow x = 20 \text{ cm}$

4. $8^3 = 512 \text{ cm}^3$

5. $10x = 6,500 \rightarrow x = 650 \text{ cm}^3 \text{ per car}$

6. $45 \times 20 \times x = 9,000 \rightarrow 900x = 9,000 \rightarrow x = 10 \text{ cm}$

7. $15 \times 10 \times 12 = 1,800 \rightarrow 5 \times 1,800 = 9,000 \text{ cm}^3 \text{ total}$

8. $x^3 = 343 \rightarrow x = 7 \text{ cm}$

9. $60 \times 50 \times x = 150,000 \rightarrow 3,000x = 150,000 \rightarrow x = 50 \text{ cm}$

10. $(6 \times 450) + x = 3,300 \rightarrow 2,700 + x = 3,300 \rightarrow x = 600 \text{ cm}^3$