Name _____ Volume Word Problems

Detectives

1. A detective's magnifying glass is shaped like a cylindrical lens with a radius of 2 inches and a thickness of 0.5 inches. Calculate the volume of the magnifying glass in cubic inches.

2. A detective's briefcase is designed as a rectangular prism with dimensions 18 inches by 12 inches by 6 inches. Determine the volume of case files it can hold in cubic inches.

3. A detective's spyglass is shaped like a cylindrical tube with a radius of 1.5 inches and a length of 8 inches. Calculate the volume of the spyglass in cubic inches.

4. A detective's hatbox is a cylindrical container with a radius of 5 inches and a height of 7 inches. Determine the volume of hats it can store in cubic inches.

5. A detective's trench coat is a rectangular prism with dimensions 42 inches by 24 inches by 3 inches. Calculate the volume of concealed items it can carry in cubic inches.

6. A detective's flashlight is designed as a cylindrical torch with a radius of 1 inch and a length of 6 inches. Determine the volume of the flashlight in cubic inches.

7. A detective's notepad is shaped like a rectangular prism with dimensions 5 inches by 3 inches by 0.5 inches. Calculate the volume of notes it can hold in cubic inches.

8. A detective's spy camera is cylindrical with a radius of 1.25 inches and a height of 4 inches. Determine the volume of the camera in cubic inches.

9. A detective's briefcase is shaped like a rectangular prism with dimensions 20 inches by 14 inches by 8 inches. Calculate the volume of investigative documents it can store in cubic inches.

10. A detective's notepad holder is cylindrical with a radius of 2.5 inches and a height of 7 inches. Determine the volume of notepads it can hold in cubic inches.

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