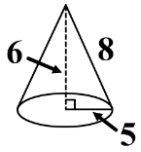
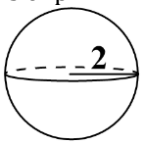
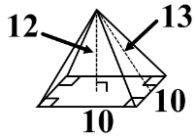
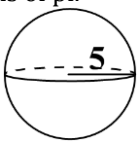
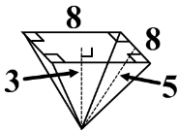
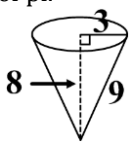
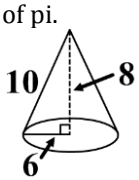
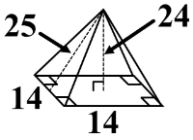
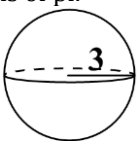
Name: _____ Per: ____

**Determining Volume Part 3**

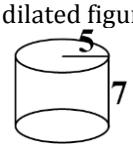
**Evaluate. If needed, round your answer to the nearest tenth.**

| | | |
|---|---|---|
| 1. Determine the volume of the given cone in terms of pi.<br>  | 2. Determine the volume of the given sphere in terms of pi.<br>  | 3. Determine the volume of the square pyramid.<br>  |
| 4. Determine the volume of the given sphere in terms of pi.<br>  | 5. Determine the volume of the square pyramid.<br>  | 6. Determine the volume of the given cone in terms of pi.<br>  |
| 7. Determine the volume of the given cone in terms of pi.<br>  | 8. Determine the volume of the square pyramid.<br>  | 9. Determine the volume of the given sphere in terms of pi.<br>  |

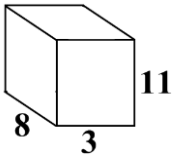
Name: _____ Per: ____

**Determine the volume of each figure after the given dilation.**

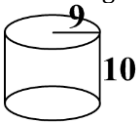
10. If the figure below were dilated by a scale factor of $k = 3$, what would be the volume of the dilated figure?



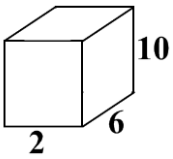

11. If the figure below were dilated by a scale factor of $k = 2$, what would be the volume of the dilated figure?



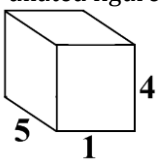

12. If the figure below were dilated by a scale factor of $k = 2$, what would be the volume of the dilated figure?



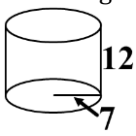

13. If the figure below were dilated by a scale factor of $k = 5$, what would be the volume of the dilated figure?




14. If the figure below were dilated by a scale factor of $k = 4$, what would be the volume of the dilated figure?




15. If the figure below were dilated by a scale factor of $k = 2$, what would be the volume of the dilated figure?




Determining Volume Part 3 Answers

| | | | | |
|---|---|---|---|---|
| 1. $V = 50\pi$ | 2. $V = 10.7\pi$ | 3. $V = 400$ | 4. $V = 166.7\pi$ | 5. $V = 64$ |
| 6. $V = 24\pi$ | 7. $V = 96\pi$ | 8. $V = 1568$ | 9. $V = 36\pi$ | 10. $V = 4725\pi$ |
| 11. $V = 2112$ | 12. $V = 6480\pi$ | 13. $V = 15000$ | 14. $V = 1280$ | 15. $V = 4704\pi$ |