

Key:

1. $252 + 144\sqrt{3}$

2. 2009

3. $125/1296$

4. $3\pi/2$

5. 1089

6. 63

7. 26

8. $2\sqrt{3}$

9. 720 I think (I reworded this ... tell me if you think this is a mistake.)

10. 538,461