1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. Let $ABCD$ be a trapezoid with $\overline{BC}$ perpendicular to both $\overline{AB}$ and $\overline{CD}$. Diagonals $\overline{AC}$ and $\overline{BD}$ meet at right angles at point E. If $AB = 28$ and $CD = 231/4$, what is the length of $\overline{AE}$?

10. How many positive five-digit multiples of 9 are palindromes?