1. **36 laps/day**

2. **78 students**

3. **$10.23**

4. **365 min, or 6 h and 5 min; 10 min**

5. **11 pieces; 16 pieces**

6. **a. 4, 3, 1; 9, 8, 1; 16, 15, 1; 25, 24, 1. The differences are all 1.**

   b. 11 · 11; 1

   c. 2,208

   d. 4,225

7. **a. $59; $21**

   b. 10 people

8. **3 mi**