Velocity Calculation

In week 1, the team completed the following 5 high-priority (Priority 10) tasks:

- **User Login - Iteration #1** (Priority 10)
  2 hours

- **User Signup - Iteration #1** (Priority 10)
  2 hours

- **Home Page - Iteration #1** (Priority 10)
  3 hours

- **Login Page - Iteration #1** (Priority 10)
  2 hours

- **Signup Page - Iteration #1** (Priority 10)
  2 hours

Week 1 Velocity Calculation:

$$\text{Velocity}_{\text{Week 1}} = \frac{2}{10} + \frac{2}{10} + \frac{3}{10} + \frac{2}{10} + \frac{2}{10} = 1.1\,\text{hr/P}$$

In week 2, the team completed the following 7 high-priority tasks:

- **Liking Feature - Iteration #2** (Priority 30)
  3 hours

- **Delete Post Frontend - Iteration #2** (Priority 20)
  3 hours

- **Delete Post Backend - Iteration #2** (Priority 10)
  1 hour

- **Hashed Password - Iteration #1** (Priority 20)
  1 hour

- **Create a Test File for user-controller.js** (Priority 20)
  2 hours

- **Create a Test File for post-controller.js** (Priority 20)
  2 hours

- **Create Post - Iteration #2** (Priority 10)
  3 hours

Week 2 Velocity Calculation:

$$\text{Velocity}_{\text{Week 2}} = \frac{3}{30} + \frac{3}{20} + \frac{1}{10} + \frac{1}{20} + \frac{2}{20} + \frac{2}{20} + \frac{3}{10} = 0.9 \, \text{hr/P}$$

Combined Velocity Calculation:

$$\text{Velocity}_{\text{Total}} = \text{Velocity}_{\text{Week 1}} + \text{Velocity}_{\text{Week 2}} = 1.1 + 0.9 = 2.0 \, \text{hr/P}$$

$$\therefore \text{ The combined team's velocity for 2 weeks is } 2.0 \, \text{hr/P}.$$