Lesson 6 Extra Practice

Equivalent Ratios

Determine if each pair of ratios or rates is equivalent. Explain your reasoning.

1. 8 out of 10 boys play a sport; 25 out of 30 boys play a sport
   
   No; Since \( \frac{8}{10} \) boys ≠ \( \frac{25}{30} \) boys, the ratios are not equivalent.

2. $16 for 2 tickets; $40 for 5 tickets
   
   Yes; Since the unit rates are the same, \( \frac{8}{1} \) ticket = \( \frac{8}{1} \) ticket.

3. 3 teachers for 63 students; 7 teachers for 147 students
   
   Yes; Since the unit rates are the same; \( \frac{21}{1} \) students = \( \frac{21}{1} \) students.

4. 15 minutes to read 9 pages; 50 minutes to read 30 pages
   
   Yes; Since the unit rates are the same, \( \frac{1.7}{1} \) minutes = \( \frac{1.7}{1} \) minutes.

5. Lusita earned $85 for 8 hours of babysitting. Avery earned $125 for 11 hours of babysitting. Are the rates equivalent? Explain your reasoning.
   
   No; Sample answer: since \( \frac{85}{8} \) hours ≠ \( \frac{125}{11} \) hours, the rates are not equivalent.

6. Miss Ferguson recorded 17 absences in her class during the first 30 days of school. During the last 60 days of school, she recorded 42 absences. Are the rates equivalent? Explain your reasoning.
   
   No; Sample answer: since \( \frac{17}{30} \) days ≠ \( \frac{42}{60} \) days, the ratios are not equivalent.