Comparing Fractions Using Benchmarks

For 1–9, use benchmark numbers to compare. Write < or > for each 〇.

1. \( \frac{3}{6} \) 〇 \( \frac{3}{8} \)
2. \( \frac{2}{3} \) 〇 \( \frac{1}{3} \)
3. \( \frac{4}{8} \) 〇 \( \frac{6}{8} \)
4. \( \frac{2}{4} \) 〇 \( \frac{2}{6} \)
5. \( \frac{1}{4} \) 〇 \( \frac{1}{3} \)
6. \( \frac{3}{4} \) 〇 \( \frac{1}{4} \)
7. \( \frac{3}{3} \) 〇 \( \frac{3}{4} \)
8. \( \frac{5}{8} \) 〇 \( \frac{5}{6} \)
9. \( \frac{2}{6} \) 〇 \( \frac{2}{3} \)

10. Explain how you compared the fractions in Exercise 9.

11. Which fraction is closer to 1 than to 0?
   A \( \frac{1}{4} \)  
   B \( \frac{1}{2} \)  
   C \( \frac{3}{6} \)  
   D \( \frac{7}{8} \)

12. Lucy has a collection of buttons. \( \frac{2}{3} \) of her buttons are square and \( \frac{2}{8} \) of her buttons are round. Does Lucy have more square buttons or round buttons?

13. Reason On Monday, Carlos ran \( \frac{1}{8} \) of a mile. On Wednesday, he ran \( \frac{5}{6} \) of a mile. Carlos ran \( \frac{3}{8} \) of a mile on Friday. Which day did Carlos run the farthest?

14. Writing to Explain Sydney says that \( \frac{4}{8} \) is closer to 0 than to 1. Is she correct? Explain.