Name _____ Date _____ Class _____

SECTION 5B

Ready to Go On? Quiz

5-6 Multiplying Fractions by Whole Numbers

Multiply. Write each answer in simplest form.

1. $5 \cdot \frac{3}{4}$ _____

2. $6 \cdot \frac{2}{3}$ _____

3. $8 \cdot \frac{5}{6}$ _____

4. Kazuko's yardstick is broken. It is only $\frac{3}{5}$ of a yard long. She measures one wall of her classroom and it is 7 broken-yardstick lengths. How long is the wall? _____

5-7 Multiplying Fractions

Multiply. Write each answer in simplest form.

5. $\frac{2}{3} \cdot \frac{3}{4}$ _____

6. $\frac{5}{12} \cdot \frac{6}{7}$ _____

7. $\frac{1}{4} \cdot \frac{8}{9}$ _____

8. $\frac{3}{10} \cdot \frac{5}{6}$ _____

9. $\frac{8}{11} \cdot \frac{1}{2}$ _____

10. $\frac{5}{12} \cdot \frac{8}{15}$ _____

Evaluate the expression $s \cdot \frac{1}{6}$ for each value of s. Write the answer in simplest form.

11. $s = \frac{3}{4}$ _____

12. $s = \frac{6}{7}$ _____

13. $s = \frac{9}{10}$ _____

5-8 Multiplying Mixed Numbers

Multiply. Write each answer in simplest form.

14. $\frac{3}{4} \cdot 2\frac{1}{2}$ _____

15. $2\frac{1}{4} \cdot \frac{2}{3}$ _____

16. $\frac{3}{5} \cdot 3\frac{1}{3}$ _____

17. $2\frac{2}{3} \cdot 2\frac{1}{4}$ _____

18. $4\frac{1}{2} \cdot 1\frac{1}{6}$ _____

19. $1\frac{5}{9} \cdot 5\frac{5}{8}$ _____

Name _____ Date _____ Class _____

SECTION 5B **Ready to Go On? Quiz** continued

5-9 Dividing Fractions and Mixed Numbers

Find the reciprocal.

20. $\frac{3}{4}$ _____ **21.** $\frac{4}{9}$ _____ **22.** $\frac{5}{8}$ _____ **23.** $7\frac{1}{2}$ _____

Divide. Write each answer in simplest form.

24. $\frac{3}{4} \div 4$ _____ **25.** $\frac{6}{7} \div 12$ _____ **26.** $\frac{5}{8} \div 3\frac{3}{4}$ _____

27. $3\frac{3}{5} \div 2\frac{2}{5}$ _____ **28.** $4\frac{1}{3} \div 2\frac{8}{9}$ _____ **29.** $2\frac{3}{4} \div 3\frac{1}{7}$ _____

30. In Mr. Sanders's class, $\frac{1}{3}$ of the students are girls. About $\frac{1}{4}$ of the girls want to join the chorus. What fraction of all the students in Mr. Sanders's class want to join the chorus?

_____

31. A recipe for trail mix calls for $\frac{3}{4}$ pound of peanuts. Luiza only wants to make half of the recipe's servings. How many pounds of peanuts should she use?

_____

32. The rope in the school gymnasium is $10\frac{1}{2}$ feet long. To make it easier to climb, the gym teacher tied a knot in the rope every $\frac{3}{4}$ foot. How many knots are in the rope? _____

33. Richie is making 3 quarts of fruit punch for his friends. He must add $\frac{1}{2}$ cup sugar to make each quart of punch. How much sugar will he add?

_____

34. Kylie made a 4-ounce milk shake. Two-thirds of the milk shake was ice cream. How many ounces of ice cream did Kylie use in the shake?

_____