Name _____ Core _____ Date _____

✓ Vocabulary and Concept Check

1. **VOCABULARY** What is the reciprocal of $7\frac{1}{3}$?

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2. **NUMBER SENSE** Is $5\frac{1}{4} \div 3\frac{1}{2}$ the same as $3\frac{1}{2} \div 5\frac{1}{4}$? Explain.

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3. **NUMBER SENSE** Is the reciprocal of an improper fraction *sometimes*, *always*, or *never* a proper fraction? Explain.

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4. DIFFERENT WORDS, SAME QUESTION Which is different? Find "both" answers.

What is $5\frac{1}{2}$ divided by $\frac{1}{8}$?

Find the quotient of $5\frac{1}{2}$ and $\frac{1}{8}$.

What is $5\frac{1}{2}$ times 8?

Find the product of $5\frac{1}{2}$ and $\frac{1}{8}$.

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21. ERROR ANALYSIS Describe and correct the error in finding the quotient.

$$\times \quad 3\frac{1}{2} \div 1\frac{2}{3} = 3\frac{1}{2} \times 1\frac{3}{2} = \frac{7}{2} \times \frac{5}{2} = \frac{35}{4} = 8\frac{3}{4}$$

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23. HAMBURGERS How many $\frac{1}{4}$-pound hamburgers can you make from $3\frac{1}{2}$ pounds of ground beef?

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Evaluate the expression. Write the answer in simplest form.

26. $3 \div 1\frac{1}{5} + \frac{1}{2}$ _____

28. $\frac{2}{5} + 2\frac{1}{6} \div \frac{5}{6}$ _____

30. $6\frac{1}{2} - \frac{7}{8} \div 5\frac{11}{16}$ _____

34. $4\frac{3}{8} \div \frac{3}{4} \times \frac{4}{7}$ _____

38. TRAIL MIX You have 12 cups of granola and $8\frac{1}{2}$ cups of peanuts to make trail mix. What is the greatest number of full batches of trail mix you can make? Explain how you found your answer.

Trail Mix
$2\frac{3}{4}$ cups granola
$1\frac{1}{3}$ cups peanuts

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40. **Reasoning** At a track meet, the longest shot-put throw by a boy is 25 feet 8 inches. The longest shot-put throw by a girl is 19 feet 3 inches. How many times greater is the longest shot-put throw by the boy than by the girl?

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