Problem Solving • Practice Addition and Subtraction

Read each problem and solve.

1. From a board 8 feet in length, Emmet cut two $2\frac{1}{3}$-foot bookshelves. How much of the board remained?

   Write an equation: $8 = 2\frac{1}{3} + 2\frac{1}{3} + x$

   Rewrite the equation to work backward:

   $$8 - 2\frac{1}{3} - 2\frac{1}{3} = x$$

   Subtract twice to find the length remaining: $3\frac{1}{3}$ **feet**

2. Lynne bought a bag of grapefruit, $1\frac{5}{8}$ pounds of apples, and $2\frac{3}{16}$ pounds of bananas. The total weight of her purchases was $7\frac{1}{2}$ pounds. How much did the bag of grapefruit weigh?

   _____

3. Mattie's house consists of two stories and an attic. The first floor is $8\frac{5}{6}$ feet tall, the second floor is $8\frac{1}{2}$ feet tall, and the entire house is $24\frac{1}{3}$ feet tall. How tall is the attic?

   _____

4. It is $10\frac{3}{5}$ miles from Alston to Barton and $12\frac{1}{2}$ miles from Barton to Chester. The distance from Alston to Durbin, via Barton and Chester, is 35 miles. How far is it from Chester to Durbin?

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5. Marcie bought a 50-foot roll of packing tape. She used two $8\frac{5}{6}$-foot lengths. How much tape is left on the roll?

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6. **WRITE** *Math* Write a word problem involving fractions for which you would use the *work backward* strategy and addition to solve. Include your solution.

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Lesson Check

1. Paula spent $\frac{3}{8}$ of her allowance on clothes and $\frac{1}{6}$ on entertainment. What fraction of her allowance did she spend on other items?

2. Della bought a tree seedling that was $2\frac{1}{4}$ feet tall. During the first year, it grew $1\frac{1}{6}$ feet. After two years, it was 5 feet tall. How much did the seedling grow during the second year?

Spiral Review

3. What is a way to write 100,000 using exponents?

4. What expression can be used for estimating $868 \div 28$?

5. Justin gave the clerk $20 to pay a bill of $6.57. How much change should Justin get?

6. What is the value of the following expression?

$$7 + 18 \div (6 - 3)$$

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