Problem Solving • Practice Addition and Subtraction

COMMON CORE STANDARD CC.5.NF.2
Use equivalent fractions as a strategy to add and subtract fractions.

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?

   _____

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?

   _____

6. Meg started her trip with $11\frac{1}{2}$ gallons of gas in her car's gas tank. She bought an additional $6\frac{4}{5}$ gallons on her trip and arrived back home with $3\frac{3}{10}$ gallons left. How much gas did she use on the trip?

   _____

Lesson Check (CC.5.NF.2)

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?

   Ⓐ $\frac{3}{8}$

   Ⓑ $\frac{11}{24}$

   Ⓒ $\frac{13}{24}$

   Ⓓ $\frac{5}{8}$

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?

   Ⓐ $1\frac{1}{4}$ feet

   Ⓑ $1\frac{1}{3}$ feet

   Ⓒ $1\frac{5}{12}$ feet

   Ⓓ $1\frac{7}{12}$ feet

Spiral Review (CC.5.OA.1, CC.5.NBT.2, CC.5.NBT.6, CC.5.NBT.7)

3. Which is another way to write 100,000?
   (Lesson 1.4)

   Ⓐ 10^6

   Ⓑ 10^5

   Ⓒ 10×10^5

   Ⓓ 10×10^6

4. Which expression is the best choice for estimating $868 \div 28$? (Lesson 2.5)

   Ⓐ $868 \div 28$

   Ⓑ $900 \div 30$

   Ⓒ $1,000 \div 20$

   Ⓓ $1,000 \div 30$

5. Justin gave the clerk $20 to pay a bill of $6.57. How much change should Justin get?
   (Lesson 3.11)

   Ⓐ $12.43

   Ⓑ $12.53

   Ⓒ $13.43

   Ⓓ $14.43

6. What is the value of the following expression?
   $$7 + 18 \div (6 - 3)$$ (Lesson 1.12)

   Ⓐ 9

   Ⓑ 13

   Ⓒ 21

   Ⓓ 27