

Lesson 17 ~ Adding Rational Numbers

Name _____ Period _____ Date _____

Find each sum. Write your answer in simplest form.

1. $-\frac{3}{8} + \left(-\frac{1}{4}\right)$

2. $-\frac{1}{3} + \frac{4}{9}$

3. $-2\frac{2}{3} + 1\frac{1}{2}$

4. $-3\frac{1}{4} + \left(-4\frac{1}{8}\right)$

5. $\frac{5}{6} + \left(-\frac{4}{5}\right)$

6. $6\frac{1}{3} + \left(-8\frac{1}{2}\right)$

7. Edgar's credit card had an interest rate of $9\frac{3}{4}\%$. He paid his bills on time so the company changed his rate by $-1\frac{1}{2}\%$. What is his new rate?

8. Lucy's hair grew $\frac{5}{12}$ foot over the past year. She cut $1\frac{1}{6}$ foot off for summer.

a. One of the fractions should be written as negative number. Which one is it and why?

b. Find the sum of the two numbers to determine the total change in the length of Lucy's hair over the past year.

Find each sum.

9. $11.3 + 2.14$

10. $-0.9 + 3.5$

11. $-0.21 + (-7.3)$

12. $5.25 + (-3.8)$

13. $-0.09 + 0.4$

14. $-6 + 4.35$

15. Lydia's bank account had a balance of $-\$18.24$. She deposited $\$30.50$ in the account. What is her new balance?

16. Patrick turned out for the track team and lost 5.62 kilograms during the season. After the season finished, he gained back 1.4 kilograms.

a. One of the decimals should be written as negative number. Which one is it and why?

b. Find the sum of the two numbers to determine the total change in Patrick's weight.