

More Adding and Subtracting Fractions

In 1 through 12, simplify each expression.

1. $\frac{4}{6} + \frac{2}{9}$ _____

2. $\frac{2}{7} + \frac{1}{2}$ _____

3. $\frac{8}{12} + \frac{1}{6}$ _____

4. $\frac{3}{8} + \frac{1}{6}$ _____

5. $\frac{1}{12} + \frac{7}{9}$ _____

6. $\frac{4}{18} + \frac{2}{9}$ _____

7. $\frac{1}{3} + \frac{1}{4}$ _____

8. $\frac{5}{15} + \frac{3}{5}$ _____

9. $\frac{1}{2} - \left(\frac{1}{8} + \frac{1}{8}\right)$ _____

10. $\frac{3}{4} + \left(\frac{1}{4} - \frac{1}{6}\right)$ _____

11. $\left(\frac{1}{2} + \frac{3}{20}\right) - \frac{2}{20}$ _____

12. $\left(\frac{2}{5} + \frac{1}{5}\right) - \frac{3}{10}$ _____

13. A plumber is fitting a water pipe that is $\frac{3}{4}$ foot long on to a water pipe that is $\frac{2}{12}$ foot long. How long will the finished pipe be?

A $\frac{11}{12}$ foot

C $\frac{2}{12}$ foot

B $\frac{8}{16}$ foot

D 1 foot

14. Joel made some muffins. He gave $\frac{1}{4}$ of the muffins to a neighbor. He took $\frac{3}{8}$ of the muffins to school. What fraction of the muffins is left?

A $\frac{4}{12}$

C $\frac{5}{12}$

B $\frac{3}{8}$

D $\frac{8}{8}$

15. Carl has three lengths of cable, $\frac{5}{6}$ yard long, $\frac{1}{4}$ yard long, and $\frac{2}{3}$ yard long. He needs at least 1 yard of cable.

a Which two pieces together make a length at least 1 yard and closest to 1 yard? _____

b If Carl uses the two shortest pieces, how much more cable would he need?

c After Carl has used 1 yard of cable, how much cable will he have left?
Explain how you found your answer.

