PRACTICE DRILL 9—ADDING AND SUBTRACTING FRACTIONS (LOWER, MIDDLE, UPPER LEVELS ONLY)

1. $\dfrac{3}{8} + \dfrac{2}{3} =$

2. $\dfrac{1}{3} + \dfrac{3}{8} =$

3. $\dfrac{4}{7} + \dfrac{2}{7} =$

4. $\dfrac{3}{4} - \dfrac{2}{3} =$

5. $\dfrac{7}{9} + \dfrac{5}{4} =$

6. $\dfrac{2}{5} - \dfrac{3}{4} =$

7. $\dfrac{10}{12} + \dfrac{7}{2} =$

8. $\dfrac{17}{27} - \dfrac{11}{27} =$

9. $\dfrac{17}{27} - \dfrac{11}{27} =$

(Upper Level)

10. $\dfrac{x}{3} + \dfrac{4x}{6} =$

11. $\dfrac{2x}{10} + \dfrac{x}{5} =$

12. $\dfrac{3y}{6} - \dfrac{y}{12} =$

Practice Drill 9—Adding and Subtracting Fractions

1. $1\dfrac{1}{24}$ or $\dfrac{25}{24}$

    Multiply using Bowtie to get $\dfrac{9}{24}+\dfrac{16}{24}=\dfrac{25}{24}=1\dfrac{1}{24}$.

2. $\dfrac{17}{24}$

    Multiply using Bowtie to get $\dfrac{8}{24}+\dfrac{9}{24}=\dfrac{17}{24}$.

3. $\dfrac{6}{7}$

    Did you use the Bowtie? You didn't need to because there was already a common denominator there!

4. $\dfrac{1}{12}$

    Multiply using Bowtie to get $\dfrac{9}{12}-\dfrac{8}{12}=\dfrac{1}{12}$.

5. $2\dfrac{1}{36}$ or $\dfrac{73}{36}$

    Multiply using Bowtie to get $\dfrac{28}{36}+\dfrac{45}{36}=\dfrac{73}{36}=2\dfrac{1}{36}$.

6. $-\dfrac{7}{20}$

    Multiply using Bowtie to get $\dfrac{8}{20}-\dfrac{15}{20}=-\dfrac{7}{20}$.

7. $4\dfrac{1}{3}$ or $\dfrac{13}{3}$

    Multiply using Bowtie to get $\dfrac{20}{24}+\dfrac{84}{24}=\dfrac{104}{24}=\dfrac{13}{3}=4\dfrac{1}{3}$.

8. $\dfrac{2}{9}$

    Did you use the Bowtie? You didn't need to because there was already a common denominator there! Subtract to get $\dfrac{6}{27}=\dfrac{2}{9}$.

9. $\dfrac{49}{60}$

    Multiply using Bowtie to get $\dfrac{9}{60} + \dfrac{40}{60} = \dfrac{49}{60}$.

10. x

    Multiply using Bowtie to get $\dfrac{6x}{18} + \dfrac{12x}{18} = \dfrac{18x}{18} = x$.

11. $\dfrac{2x}{5}$

    Multiply using Bowtie to get $\dfrac{10x}{50} + \dfrac{10x}{50} = \dfrac{20x}{50} = \dfrac{2x}{5}$.

12. $\dfrac{5y}{12}$

    Multiply using Bowtie to get $\dfrac{36y}{72} - \dfrac{6y}{72} = \dfrac{30y}{72} = \dfrac{5y}{12}$.