Quiz: Fraction

Section: Real-life Skills **Sub-section: Real-life Skills**

Choose the correct answer.

1. A soup kitchen had $6\frac{1}{2}$ gallons of soup at the start of the day. They had $2\frac{1}{10}$ gallons of soup left by the end of the day. How many gallons of soup did they use during the day?
   (Apply MA 1.1 G.7/1)

   A. $4\frac{2}{5}$

   B. $4\frac{4}{5}$

   C. $6\frac{2}{5}$

   D. $8\frac{3}{5}$

   Solution $4\frac{2}{5}$

   $6\frac{1}{2} - 2\frac{1}{10} = \frac{13\times5}{2\times5} - \frac{21}{10} = \frac{65}{10} - \frac{21}{10} = \frac{44\div2}{10\div2} = \frac{22}{5} = 4\frac{2}{5}$

2. A chef bought $7\frac{2}{3}$ pounds of carrots to make a carrot cake. He only used $5\frac{2}{7}$ pounds of the carrots. How many pounds of carrots are left over?
   (Apply MA 1.1 G.7/1)

   A. $2\frac{4}{21}$

   B. $2\frac{8}{21}$

   C. $2\frac{1}{2}$

   D. $2\frac{4}{5}$

   Solution $2\frac{8}{21}$

   $7\frac{2}{3} - 5\frac{2}{7} = \frac{23\times7}{3\times7} - \frac{37\times3}{7\times3} = \frac{161}{21} - \frac{111}{21} = \frac{50}{21} = 2\frac{8}{21}$

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3. Marc collected $\frac{2}{9}$ of a bag of leaves. Steven collected 7 times as many bags as Marc. How many bags did Steven collect?
(Apply MA 1.1 G.7/1)

   A. $\frac{5}{9}$

   B. 1

   C. $1\frac{3}{9}$

   D. $1\frac{5}{9}$

   Solution $1\frac{5}{9}$

   $\frac{2}{9} \times 7 = \frac{2\times7}{9\times1} = \frac{14}{9} = 1\frac{5}{9}$

4. A recipe calls for $\frac{3}{4}$ of a cup of flour. If you double the recipe, how much flour do you need?
(Apply MA 1.1 G.7/1)

   A. $\frac{3}{8}$ cups

   B. 1 cup

   C. $1\frac{1}{4}$ cups

   D. $1\frac{1}{2}$ cups

   Solution $1\frac{1}{2}$ cups

   $\frac{3}{4} \times 2 = \frac{3\times2}{4\times1} = \frac{6\div2}{4\div2} = \frac{3}{2} = 1\frac{1}{2}$

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5. Ben has $\frac{2}{3}$ gallon of blue paint and $\frac{7}{12}$ gallon of red paint. If he has a total of $2\frac{1}{8}$ gallons of paint, how many gallons are neither red nor blue?
(Apply MA 1.1 G.7/1)

   A. $\frac{7}{8}$

   B. $1\frac{1}{4}$

   C. $1\frac{11}{24}$

   D. $1\frac{13}{24}$

   Solution $\frac{7}{8}$

   $2\frac{1}{8} - \frac{2}{3} - \frac{7}{12} = \frac{17\times3}{8\times3} - \frac{2\times8}{3\times8} - \frac{7\times2}{12\times2} = \frac{51}{24} - \frac{16}{24} - \frac{14}{24} = \frac{21\div3}{24\div3} = \frac{7}{8}$

6. Harry practices soccer for $1\frac{1}{3}$ hours on Friday, $\frac{5}{12}$ hours on Saturday and $\frac{7}{9}$ hours on Sunday. How many hours of soccer did he practice altogether?
(Apply MA 1.1 G.7/1)

   A. $1\frac{17}{36}$

   B. $1\frac{19}{36}$

   C. $2\frac{17}{36}$

   D. $2\frac{19}{36}$

   Solution $2\frac{19}{36}$

   $1\frac{1}{3} + \frac{5}{12} + \frac{7}{9} = \frac{4\times12}{3\times12} + \frac{5\times3}{12\times3} + \frac{7\times4}{9\times4} = \frac{48}{36} + \frac{15}{36} + \frac{28}{36} = \frac{91}{36} = 2\frac{19}{36}$