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Chapter 8 Section A Diagnostic Checkpoint

MULTIPLE CHOICE

- Which fraction shows the difference $\frac{7}{12} - \frac{1}{4}$ in simplest form? (8-4)
A. $\frac{5}{6}$ B. $\frac{4}{12}$ C. $\frac{1}{3}$ D. $\frac{6}{8}$
- Which number is NOT a common denominator of $\frac{5}{6}$ and $\frac{5}{9}$? (8-3)
A. 36 B. 54 C. 15 D. 18

FREE RESPONSE

Add or subtract. Simplify, if possible. You may use fraction strips or draw pictures to help. (8-1 through 8-4)

$$\begin{array}{r} 3. \quad \frac{1}{7} \\ + \frac{3}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \frac{5}{9} \\ - \frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \frac{11}{12} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$6. \quad \frac{9}{10} - \frac{1}{3}$$

$$7. \quad \frac{4}{5} - \frac{1}{4}$$

$$8. \quad \frac{5}{8} + \frac{1}{2}$$

$$9. \quad \frac{5}{6} - \frac{1}{4}$$

$$10. \quad \frac{13}{20} - \frac{3}{10}$$

$$11. \quad \frac{1}{15} + \frac{2}{3} + \frac{1}{5}$$

- Tony walked $\frac{1}{2}$ mile to Ed's house and then $\frac{3}{4}$ mile to the park. How far did Tony walk in all? (8-4)
- Jen had $\frac{7}{8}$ of a pound of walnuts. She used $\frac{1}{2}$ of a pound for a cake. How many pounds of walnuts were left? (8-4)



Think It Through

To find the least common denominator of fractions, I need to find the least common multiple of the denominators.

Writing in Math

- What is the LCD of the seven fractions shown on the map? Explain how you know it is the LCD. (8-3)
- Which is larger, Asia or Africa? Explain how you know. (8-3)
- Write and solve a problem about the total land area of three continents. (8-4)

Approximate Fraction of the World Land Area

