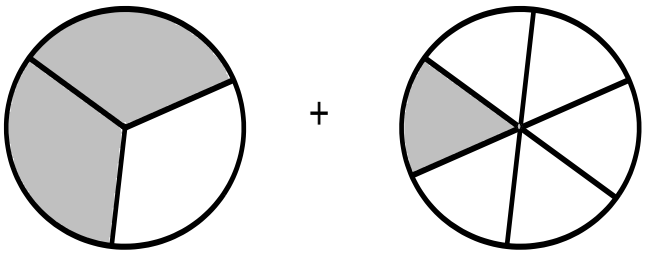
Math 7 Unit 5 PRACTICE ASSIGNMENT _____ 35

Name: _____

Part A: Multiple Choice: Write the letter of the best answer in the space at the right. [10 pts]

1. What addition equation is being modeled by the shaded part of the picture? 1. ____



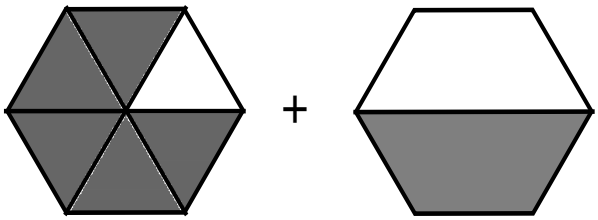
A. $\frac{2}{3}+\frac{1}{6}=\frac{3}{9}$

B. $\frac{2}{3}+\frac{1}{6}=\frac{3}{6}$

C. $\frac{2}{3}+\frac{1}{6}=\frac{5}{6}$

D. $\frac{2}{3}+\frac{1}{6}=\frac{3}{3}$

2. What addition equation is being modeled by the shaded part of the picture? 2. ____



A. $\frac{5}{6}+\frac{1}{2}=\frac{6}{8}$

B. $\frac{5}{6}+\frac{1}{2}=\frac{6}{6}$

C. $\frac{5}{6}+\frac{1}{2}=\frac{8}{6}$

D. $\frac{5}{6}+\frac{1}{2}=\frac{8}{2}$

3. Which fraction is equivalent to $\frac{6}{8}$? 3. ____

A. $\frac{6}{16}$

B. $\frac{12}{24}$

C. $\frac{3}{4}$

D. $\frac{12}{8}$

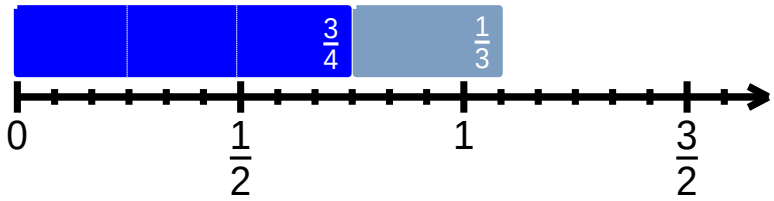
4. What addition equation is being modeled by the fraction strips and number line? 4. ____

A. $\frac{3}{4}+\frac{1}{3}=\frac{4}{12}$

B. $\frac{3}{4}+\frac{1}{3}=\frac{4}{7}$

C. $\frac{3}{4}+\frac{1}{3}=\frac{10}{12}$

D. $\frac{3}{4}+\frac{1}{3}=\frac{13}{12}$



5. What is the lowest common denominator for the pair of fractions $\frac{5}{6}$ *and* $\frac{3}{8}$? 5. ____

A. 2
B. 6
C. 24
D. 48

6. Which improper fraction is equal to $3\frac{5}{6}$? 6. ____

A. $\frac{21}{6}$

B. $\frac{23}{6}$

C. $\frac{23}{5}$

D. $\frac{35}{6}$

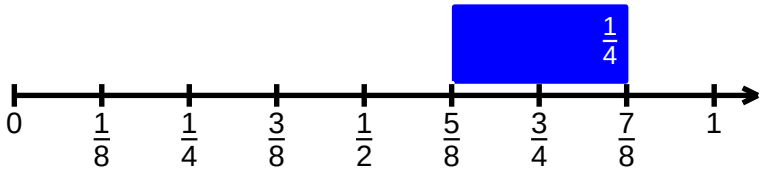
7. What subtraction equation is being modeled by the fraction strip and number line? 7. ____

A. $\frac{1}{4}-\frac{5}{8}=\frac{7}{8}$

B. $\frac{1}{4}-\frac{7}{8}=\frac{5}{8}$

C. $\frac{5}{8}-\frac{1}{4}=\frac{7}{8}$

D. $\frac{7}{8}-\frac{1}{4}=\frac{5}{8}$



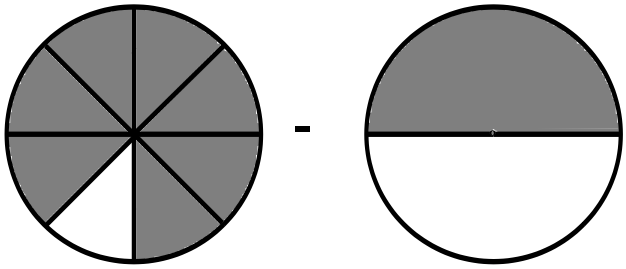
8. What subtraction equation is being modeled by the shaded parts of these fraction circles? 8. ____

A. $\frac{7}{8}-\frac{1}{2}=\frac{3}{8}$

B. $\frac{7}{8}-\frac{1}{2}=\frac{6}{8}$

C. $\frac{7}{8}-\frac{1}{2}=\frac{6}{6}$

D. $\frac{7}{8}-\frac{1}{2}=\frac{6}{2}$



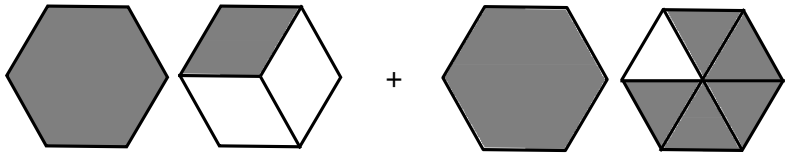
9. What addition equation is being modeled by the pattern blocks below? 9. ____

A. $1\frac{1}{3}+1\frac{5}{6}=3\frac{1}{6}$

B. $1\frac{1}{3}+1\frac{5}{6}=2\frac{6}{9}$

C. $1\frac{1}{3}+1\frac{5}{6}=2\frac{6}{6}$

D. $1\frac{1}{3}+1\frac{5}{6}=2\frac{7}{3}$



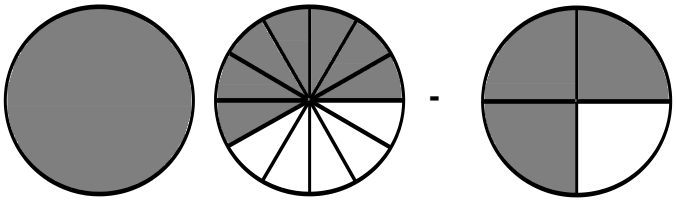
10. What subtraction equation is being modeled by the shaded parts of the circles below? 10. ___

A. $1\frac{7}{12}-\frac{3}{4}=\frac{10}{12}$

B. $1\frac{7}{12}-\frac{3}{4}=1\frac{4}{8}$

C. $1\frac{7}{12}-\frac{3}{4}=1\frac{4}{12}$

D. $1\frac{7}{12}-\frac{3}{4}=\frac{14}{12}$



Part B. Completion: Complete all questions. Show detailed workings. [25 pts]

1. Add or subtract. Write your answer in simplest form. [8 pts]

A. $\frac{4}{5}+\frac{7}{10}$

B. $\frac{8}{9}-\frac{1}{2}$

C. $\frac{3}{8}+\frac{5}{12}$

D. $\frac{6}{7}-\frac{3}{4}$

2. Add or subtract. Write your answer in simplest form as a mixed number when possible. [4 pts]

A. $2\frac{1}{3}+1\frac{3}{4}$

B. $4\frac{1}{6}-2\frac{2}{3}$

3. Your classmate incorrectly tells you that $2\frac{1}{2}+1\frac{1}{4}=3\frac{2}{6}$. [3 pts]

A. Explain what you classmate did wrong.

B. Draw a picture to show how to find the sum correctly.
(Patterns blocks, fraction circles or fraction strips & number line.)

4. Find two fractions that have a difference of $\frac{1}{6}$ when the fractions have unlike denominators. [2 pts]

5. **Show workings and write a final statement**. [4 pts]

   For an upcoming math test Missy studied $1\frac{2}{3}$ hours Sunday night, and $2\frac{1}{2}$ hours Monday night.

   A. How long did she study in total for her math test? Write your answer as a mixed number in simplest form.

   B. How much longer did she study Monday night compared to Sunday night?

6. **Show workings and write a final statement**. [4 pts]

During elections for student council president, $\frac{1}{5}$ of the students voted for Bill, $\frac{1}{4}$ voted for Mary and $\frac{3}{10}$ voted for John.

A. What fraction of the total student population voted?

B. What fraction of the total student population did not vote?