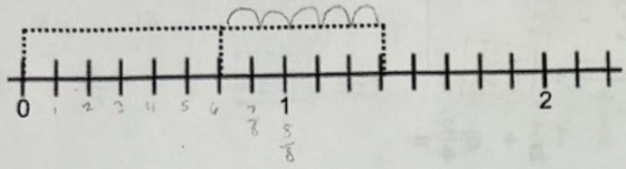
Grade 7 Fraction Add/Subtract Test Review

Name: Key

KEY

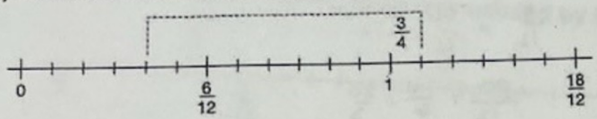
1. a) Write the addition equation represented by this picture.



$\frac{6}{8} + \frac{5}{8} = \frac{11}{8} = 1\frac{3}{8}$

$\frac{3}{4} + \frac{5}{8} = \frac{11}{8}$

b) Write the subtraction equation represented by this picture.



$\frac{13}{12} - \frac{3}{4} = \frac{1}{3}$

$\frac{13}{12} - \frac{9}{12} = \frac{4}{12} = \frac{1}{3}$

2. Add or subtract.

a) $\frac{7}{8} + \frac{11}{12}$ (×3, ×2)

$\frac{21}{24} + \frac{22}{24}$

$\frac{43}{24} = 1\frac{19}{24}$

b) $\frac{5}{6} - \frac{1}{12}$

$\frac{10}{12} - \frac{1}{12}$

$\frac{9}{12} = \frac{3}{4}$

c) $\frac{7}{8} + \frac{3}{7}$

$\frac{49}{56} + \frac{24}{56}$

$\frac{73}{56} = 1\frac{17}{56}$

d) $\frac{13}{15} - \frac{2}{6}$ (×5, ×5)

$\frac{26}{30} - \frac{10}{30}$

$\frac{16}{30} = \frac{8}{15}$

e) $\frac{3}{5} + \frac{1}{4}$

$\frac{12}{20} + \frac{5}{20}$

$\frac{17}{20}$

f) $\frac{3}{4} - \frac{4}{13}$

$\frac{39}{52} - \frac{16}{52}$

$\frac{23}{52}$

g) $\frac{14}{9} + \frac{4}{7}$

$\frac{98}{63} + \frac{36}{63}$

$\frac{134}{63} = 2\frac{10}{63}$

d) $\frac{6}{10} - \frac{3}{8}$

$\frac{24}{40} - \frac{15}{40}$

$\frac{9}{40}$

3. Find two fractions that have a **sum** of $\frac{2}{7}$

a) The fractions have like denominators.

$\frac{1}{7} + \frac{1}{7} = \frac{2}{7}$

b) The fractions have unlike denominators. Diff of $\frac{5}{8}$

$\frac{6}{8} - \frac{1}{8} =$

$\frac{3}{4} - \frac{1}{8} = \frac{5}{8}$

4. **Grade 7 class are doing a bake sale**, one-sixth of the students made cookies, 1/12 made brownies, and three-eights made muffins. What fraction of students did not bake anything? (Hint: May want to find the fraction of who did bake)

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

$\frac{4}{24} + \frac{2}{24} + \frac{9}{24}$

$\frac{15}{24}$ did

$\frac{24}{24} - \frac{15}{24} =$

So $\frac{9}{24} = \frac{3}{8}$ did not

5. Add or subtract.

a) $3\frac{2}{3} + 4\frac{1}{5}$

$\frac{11}{3} + \frac{21}{5}$

$\frac{55}{15} + \frac{63}{15} = \frac{118}{15} = 7\frac{13}{15}$

b) $5\frac{3}{4} - 2\frac{2}{9}$

$\frac{23}{4} - \frac{20}{9}$

$\frac{207}{36} - \frac{8}{36}$

$\frac{287}{36} = 7\frac{35}{36}$

c) $2\frac{1}{4} + 3\frac{2}{5}$

$\frac{9}{4} + \frac{17}{5}$

$\frac{45}{20} + \frac{68}{20}$

$\frac{113}{20} = 5\frac{13}{20}$

d) $6\frac{3}{4} - 2\frac{5}{6}$

$\frac{27}{4} - \frac{17}{6}$

$\frac{81}{12} - \frac{68}{12}$

$\frac{13}{12} = 1\frac{1}{12}$

$5\frac{1}{4} + 2\frac{1}{3} =$

$\frac{21}{4} + \frac{7}{3}$

$\frac{63}{12} + \frac{28}{12}$

$\frac{91}{12}$

$7\frac{7}{12}$

$4\frac{4}{5} + 2\frac{2}{7} =$

$\frac{24}{5} + \frac{16}{7}$

$\frac{168}{35} + \frac{80}{35}$

$\frac{248}{35}$

$7\frac{3}{35}$

$1\frac{1}{6} + 5\frac{2}{4} =$

$\frac{7}{6} + \frac{22}{4}$

$\frac{14}{12} + \frac{66}{12}$

$\frac{80}{12} = \frac{40}{6} = \frac{20}{3}$

$6\frac{2}{3}$

$4\frac{3}{5} + 1\frac{2}{6} =$

$\frac{23}{5} + \frac{8}{6}$

$\frac{138}{30} + \frac{40}{30} = \frac{178}{30} = \frac{89}{15} = 5\frac{14}{15}$

$7\frac{1}{4} + 2\frac{2}{9} =$

$\frac{29}{4} + \frac{20}{9}$

$\frac{261}{36} + \frac{80}{36} = \frac{341}{36} = 9\frac{17}{36}$

$8\frac{4}{7} + 1\frac{3}{8} =$

$\frac{60}{7} + \frac{11}{8}$

$\frac{480}{56} + \frac{77}{56} = \frac{557}{56} = 9\frac{53}{56}$

6. Your classmate tells you that $1\frac{1}{3} + 2\frac{1}{3} = 3\frac{2}{6}$. Work this question out to see if the student is correct or incorrect. Show work.

$\frac{4}{3} + \frac{7}{3}$

$\frac{11}{3}$

$3\frac{2}{3}$

or

. Which number is subtracted from the numerator and denominator of $\frac{11}{17}$ to get a fraction that is equivalent to $\frac{1}{4}$? Show your work.

$$\frac{11}{17} - \frac{\square}{\square} = \frac{1}{4}$$

$$\frac{44}{68} - \frac{27}{68} = \frac{17}{68}$$