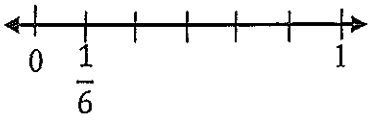
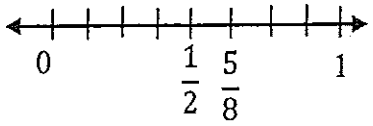
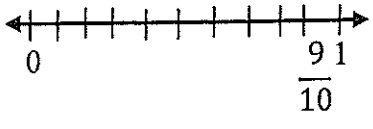
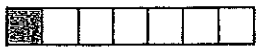
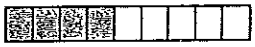
Oct. 1st

Adding and Subtracting Fractions Notes and Practice

Fractions Close to 0	Fractions close to $\frac{1}{2}$	Fractions close to 1
		
 $\frac{1}{7}$	 $\frac{4}{9}$	 $\frac{5}{6}$
The numerator is much smaller than the denominator.	The numerator is about half of the denominator.	The numerator is almost as large as the denominator.

1-Find a new denominator using the Least Common Multiple of the denominators
2-Make equivalent fractions
3-Solve; be sure to answer in *simplest* form!!!

1) $\frac{3}{8} + \frac{1}{4} \overset{\times 2}{=} \frac{2}{8}$

$\frac{5}{8}$

2) $\frac{7}{10} - \frac{1}{2} = \frac{5}{10}$

$\frac{2}{10} = \frac{1}{5}$

*always simplify

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

4) $\frac{1}{3} + \frac{1}{6} =$

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

5) $\frac{7}{8} - \frac{1}{2} =$

6) $\frac{5}{8} + \frac{1}{6} =$

don't leave improper fractions!

10) $2\frac{13}{16} - 1\frac{3}{4} =$

$2\frac{13}{16} - 1\frac{12}{16} = 1\frac{1}{16}$

11) $2\frac{9}{10} + 3\frac{4}{5} =$

$2\frac{9}{10} + 3\frac{8}{10} = 5\frac{17}{10} = 5 + 1\frac{7}{10} = 6\frac{7}{10}$

12) $1\frac{3}{4} - \frac{2}{3} =$

13) The class collected $9\frac{5}{7}$ pounds of glass bottles and $6\frac{1}{2}$ pounds of aluminum cans. How many pounds of glass and aluminum did the class collect in all?

*What operation? "and" "in all" — ADD

*don't forget to convert!

$9\frac{5}{7} + 6\frac{1}{2} = 9\frac{10}{14} + 6\frac{7}{14} = 15\frac{17}{14} = 15 + 1\frac{3}{14} = 16\frac{3}{14}$

↓ on your own practice ↓

14) William, Tim and David helped raise money by volunteering in their school's *Run for the Heart* race. William ran 2 miles and Tim ran $1\frac{1}{4}$ miles. David ran $\frac{3}{4}$ mile less than the total distance William and Tim ran together. Which number sentence can be used to find D, the number of miles David ran?

A $D = 2 - 1\frac{1}{4} - \frac{3}{4}$

B $D = (2 + 1\frac{1}{4}) - \frac{3}{4}$

C $D = 1\frac{1}{4} - \frac{3}{4}$

D $D = (2 + 1\frac{1}{4}) + \frac{3}{4}$

15) Kendra baked $4\frac{1}{2}$ dozen cookies and gave $1\frac{2}{3}$ dozen cookies to her family. She took the rest of the cookies to school to share with friends. Lola baked $1\frac{3}{4}$ dozen cookies and took them to school to share with friends. Which number sentence can be used to find how many dozens of cookies the 2 girls took to school in all?

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

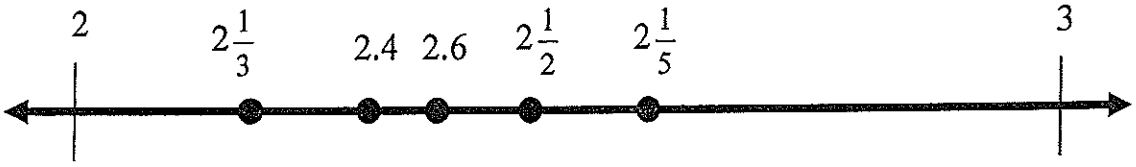
B $4\frac{1}{2} + 1\frac{2}{3} + 1\frac{3}{4}$

C $1\frac{2}{3} + 1\frac{3}{4}$

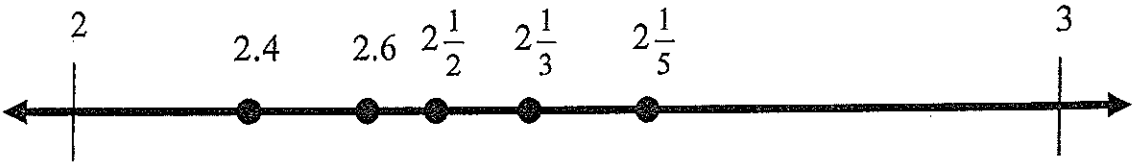
D $1\frac{2}{3} + 1\frac{3}{4} + 2$

16) Which number line shows the points correctly labeled?

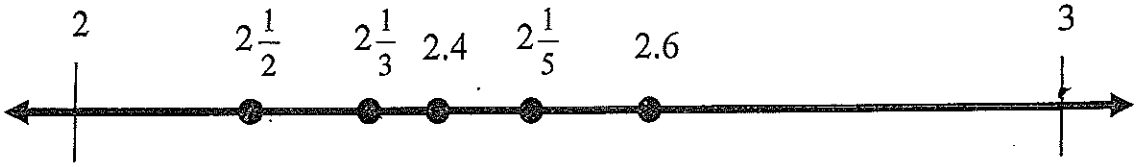
A



B



C



D