+ / - Fractions

7th grade math

Please show ALL work.
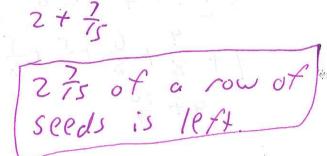
1) Lisa read for an $\frac{1}{2}$ hour yesterday, and for $\frac{1}{3}$ of an hour today. Distinguish how long Lisa read all together?

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

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

$$\frac{5}{6}$$
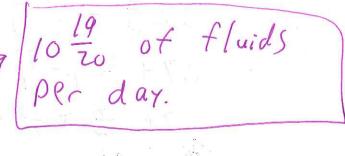
Lisa read for $\frac{5}{6}$ of an hour.

2) In my garden, I planted $3\frac{2}{3}$ row of seeds. The deer came alone and ate $1\frac{1}{5}$ rows of seeds. Distinguish what is left of my rows of seeds?

$$3\frac{2}{3} - 1\frac{1}{5}$$

$$2 + \frac{2}{3} + -\frac{1}{5}$$

$$2 + \frac{10}{15} + -\frac{3}{15}$$
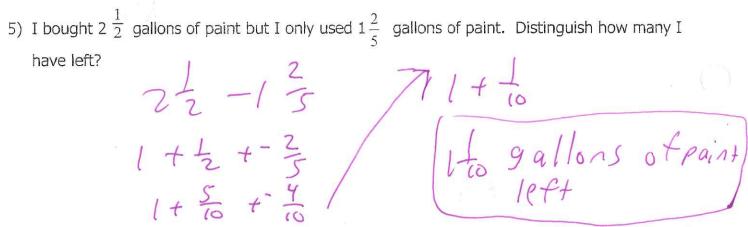
$$2 + \frac{7}{15}$$

$2\frac{7}{15}$ of a row of seeds is left.

3) I need to drink $8\frac{3}{4}$ cups of water and $2\frac{1}{5}$ cups of milk every day. Distinguish how much fluid do I have to drink?

$$8\frac{3}{4} + 2\frac{1}{5}$$

$$10 + \frac{15}{20} + \frac{4}{20}$$

$$10 + \frac{19}{20}$$

$10\frac{19}{20}$ of fluids per day.

4) During the pie eating contest my dad ate $5\frac{1}{2}$ pies and my mom $2\frac{1}{6}$ ate pies. Distinguish how many pies did they eat together?

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

$$7 + \frac{3}{6} + \frac{1}{6}$$

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

$7\frac{2}{3}$ pies they ate altogether.

5) I bought $2\frac{1}{2}$ gallons of paint but I only used $1\frac{2}{5}$ gallons of paint. Distinguish how many I have left?

$2\frac{1}{2} - 1\frac{2}{5}$

$1 + \frac{1}{2} + \frac{-2}{5}$

$1 + \frac{5}{10} + \frac{-4}{10}$

$1 + \frac{1}{10}$

$1\frac{1}{10}$ gallons of paint left

6) Mr. Moundros would like to put 4 new posters on the north classroom wall. One poster is $3\frac{1}{2}$ feet wide, one is $2\frac{3}{4}$ feet wide, and the other two posters are $2\frac{5}{8}$ feet wide. If he has 11 feet of room horizontally remaining on that wall, distinguish if he can fit all four posters with no overlap?

$3\frac{1}{2} + 2\frac{3}{4} + 2\frac{5}{8} + 2\frac{5}{8}$

$9 + \frac{4}{8} + \frac{6}{8} + \frac{5}{8} + \frac{5}{8}$

$9 + \frac{20}{8}$

$9 + \frac{5}{2}$

$9 + 2\frac{1}{2}$

$11\frac{1}{2}$

No he cannot fit all of these posters $11\frac{1}{2} > 11$

7) Mr Moundros is $32\frac{2}{5}$ years old and Ms Drayton is $5\frac{3}{4}$ years younger than him. Distinguish how old Ms Drayton is?

$32\frac{2}{5} - 5\frac{3}{4}$

$27 + \frac{2}{5} + \frac{-3}{4}$

$27 + \frac{8}{20} + \frac{-15}{20}$

$27 + \frac{-7}{20}$

$26\frac{20}{20} + \frac{-7}{20}$

$26\frac{13}{20}$ yrs old is Ms. Drayton's age.

8) Mr Moundros is $32\frac{2}{5}$ years old and Ms Christy is $51\frac{1}{6}$ years older than him. Distinguish how old Ms Christy is?

$51\frac{1}{6} + 32\frac{2}{5}$

$83 + \frac{1}{6} + \frac{2}{5}$

$83 + \frac{5}{30} + \frac{12}{30}$

$83 + \frac{17}{30}$

$83\frac{17}{30}$

$83\frac{17}{30}$ yrs old is Ms. Christy's age.