

June Review Assignment #3

Answers.

Units

1a) $\frac{1}{2} + \frac{7}{10} = 1\frac{2}{10}$ b) $1\frac{1}{2} - \frac{3}{4} = \frac{4}{2}$

2. a) $\frac{1}{4} + \frac{5}{12} = \frac{3}{12} + \frac{5}{12} = \frac{8}{12} = \frac{2}{3}$

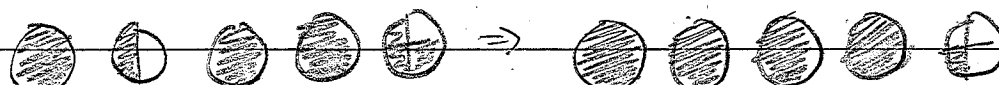
b) $\frac{3}{5} - \frac{1}{10} = \frac{6}{10} - \frac{1}{10} = \frac{5}{10} = \frac{1}{2}$

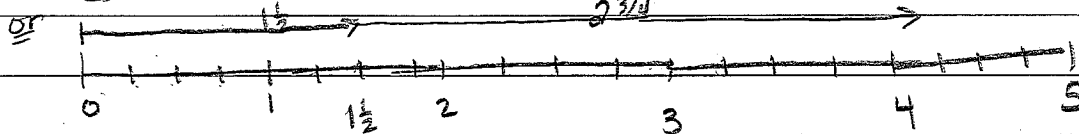
c) $\frac{2}{3} + \frac{3}{5} = \frac{10}{15} + \frac{9}{15} = \frac{19}{15}$ or $1\frac{4}{15}$

d) $\frac{5}{9} - \frac{1}{4} = \frac{20}{36} - \frac{9}{36} = \frac{11}{36}$

3. $\frac{1}{4} + \frac{1}{5} + \frac{1}{3}$

$= \frac{15}{60} + \frac{12}{60} + \frac{20}{60} = \frac{47}{60} \Rightarrow \frac{13}{60}$ did not vote

4.  $= 4\frac{1}{4}$



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

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

$= \frac{207}{36} - \frac{80}{36}$

$= \frac{127}{36} = 3\frac{19}{36}$

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

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

$= \frac{81}{12} - \frac{34}{12}$

$= \frac{47}{12} = 3\frac{11}{12}$

b. They added the denominators.

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

 $= 3\frac{2}{3}$

$1\frac{1}{3} + 2\frac{1}{3} = \frac{4}{3} + \frac{7}{3} = \frac{11}{3} = 3\frac{2}{3}$

7. $2\frac{3}{4} + \frac{7}{8} = \frac{11}{4} + \frac{7}{8} = \frac{22}{8} + \frac{7}{8} = \frac{29}{8} = 3\frac{5}{8}$ bushels.

8. a) $3\frac{1}{2} + 6\frac{1}{4} = 9\frac{3}{4}$ hrs.

b) $6\frac{1}{4} - 4\frac{1}{3} = \frac{25}{4} - \frac{13}{3} = \frac{75}{12} - \frac{52}{12} = \frac{23}{12} = 1\frac{11}{12}$ hr.

Unit 6

1. $3n - 5$

2. $\frac{n}{2} + 3 = 7$

3. $3x + 7 = 22$

Since $15 + 7 = 22$ and $3 \times 5 = 15$, $x = 5$

4. $23 - 2x = 15$

Guess $x = 5$

Guess: $x = 4$

Check: $23 - 2(5)$

Check: $23 - 2(4)$

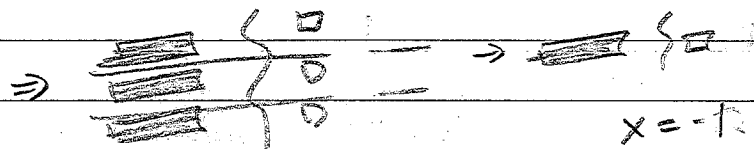
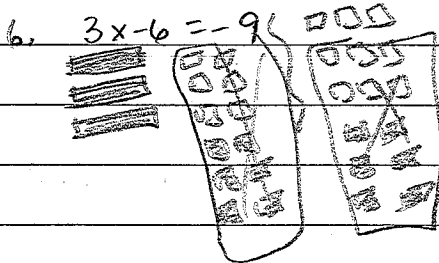
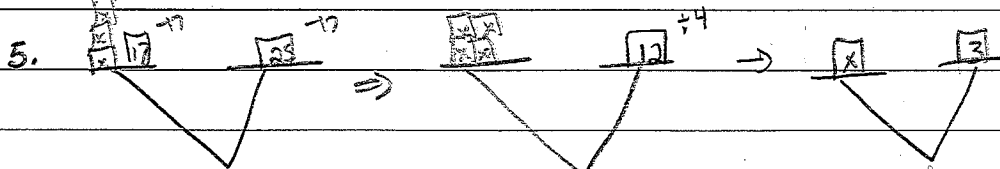
$= 23 - 10$

$= 23 - 8$

$= 13 \neq 15$

$= 15 \checkmark$

$x = 4$



7. A. $x + 7 = -3$

B. $n - 3 = 11$

C. $\frac{4x}{4} = \frac{12}{4}$

$x + 7 - 7 = -3 - 7$

$n - 3 + 3 = 11 + 3$

$x = -10$

$n = 14$

$x = 3$

D. $\frac{g}{2} = 6$

E. $3x + 2 = 23$

F. $\frac{x}{3} - 5 = 2$

$2\left(\frac{g}{2}\right) = 2(6)$

$3x + 2 - 2 = 23 - 2$

$\frac{3x}{3} = \frac{21}{3}$

$\frac{x}{3} - 5 + 5 = 2 + 5$

$g = 12$

$x = 7$

$\frac{x}{3} = 7$

$3\left(\frac{x}{3}\right) = 3(7)$

$x = 21$

$$8. A) i) 4 + 2 \times 6 = 4 + 12 = 16$$

$$ii) 4 + 2x$$

$$iii) 4 + 2x = 26$$

$$4 + 2x - 4 = 26 - 4$$

$$\frac{2x}{2} = \frac{22}{2}$$

$$x = 11$$

$$B. i) 5 + 3 \times 6 = 5 + 18 = 23$$

$$ii) 5 + 3x$$

$$iii) 5 + 3x = 26$$

$$5 + 3x - 5 = 26 - 5$$

$$\frac{3x}{3} = \frac{21}{3}$$

$$x = 7 \text{ games.}$$