Name: ANSWER KEY Period:

Lesson 4-9 Classwork

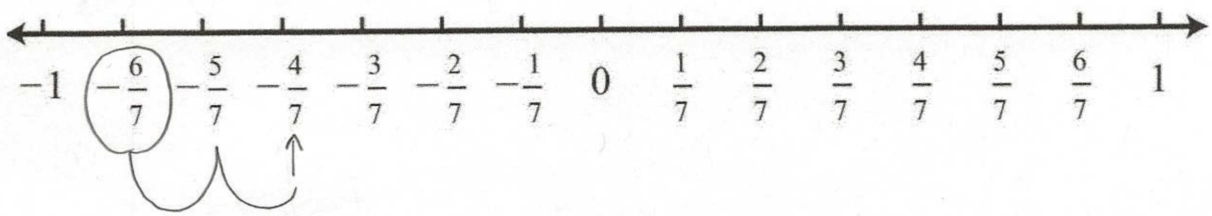
No Calculators

$\frac{3}{7}+\left(-\frac{3}{7}\right)$ cancel each other out

Question 01

Use the number line to model and solve: $\left[\frac{3}{7}\right.-\frac{4}{7}-\frac{2}{7}\left[+\left(-\frac{3}{7}\right)\right] = -\frac{6}{7}$

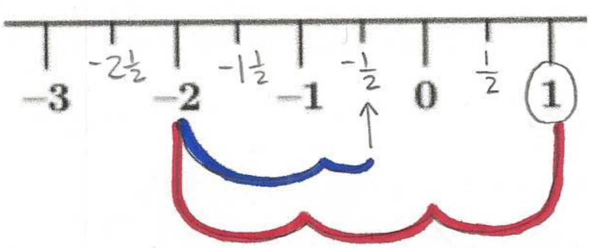
left



Question 02

Use the number line to model and solve: $-\frac{1}{2}\left[-1\frac{1}{2}\right]\left[-(-3)\right] = 1$

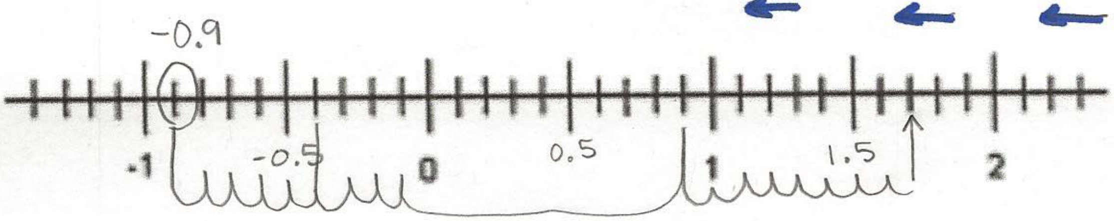
left right



Question 03

Use the number line to model and solve: $1.7\left[+(-0.8)\right]\left[-1.3\right]\left[+(-0.5)\right] = -0.9$

left left left

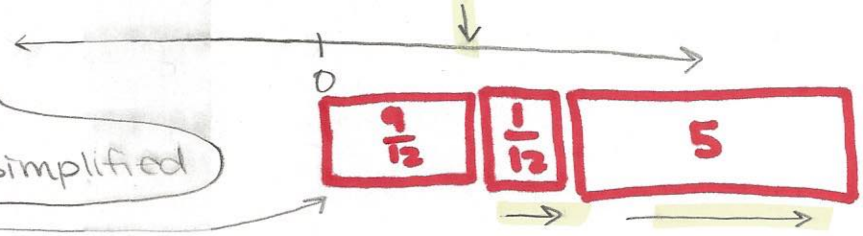


Question 04

move to right

a) $\frac{3}{4} + \frac{1}{12} - (-5) = 5\frac{10}{12}$ or $5\frac{5}{6}$ simplified

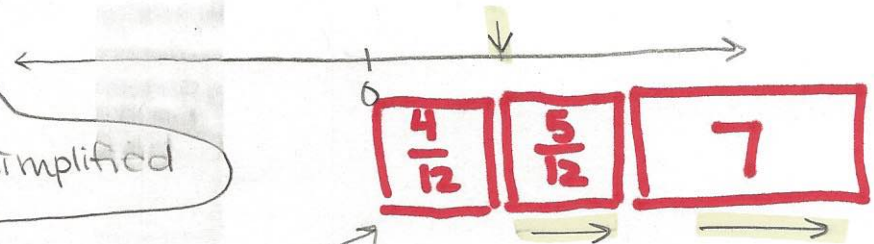
$\frac{3}{4} \overset{\times 3}{\underset{\times 3}{=}} \frac{9}{12}$



move to right

b) $\frac{1}{3} + \frac{5}{12} - (-7) = 7\frac{9}{12}$ or $7\frac{3}{4}$ simplified

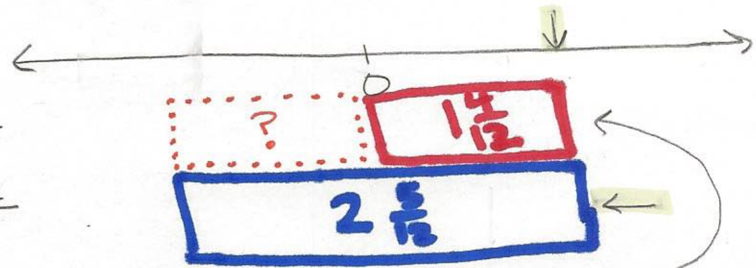
$\frac{1}{3} \overset{\times 4}{\underset{\times 4}{=}} \frac{4}{12}$



c) $1\frac{1}{3} + \left(-2\frac{5}{12}\right) = -1\frac{1}{12}$

$1\frac{1}{3} \overset{\times 4}{\underset{\times 4}{=}} 1\frac{4}{12}$

$$\begin{array}{r} 2\frac{5}{12} \\ -\ 1\frac{4}{12} \\ \hline 1\frac{1}{12} \end{array}$$

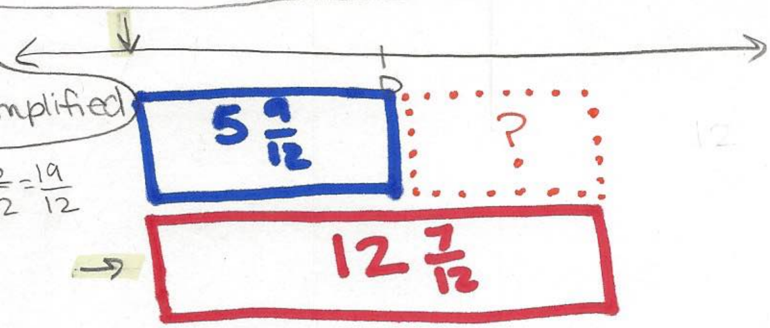


d) $-5\frac{3}{4} - \left(-12\frac{7}{12}\right) = 6\frac{10}{12}$ or $6\frac{5}{6}$ simplified

$-5\frac{3}{4} \overset{\times 3}{\underset{\times 3}{=}} -5\frac{9}{12}$

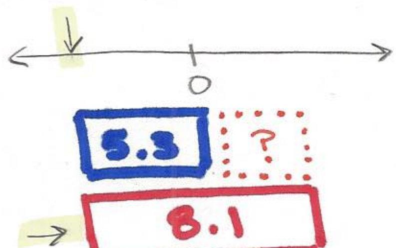
$\frac{7}{12} + \frac{12}{12} = \frac{19}{12}$

$$\begin{array}{r} \cancel{12}^{11}\ \frac{7}{12} \\ -\ 5\frac{9}{12} \\ \hline 6\frac{10}{12} \end{array}$$



Question 05

The temperature at noon is 5.3 degrees below zero. The temperature rises 8.1 degrees by 5 p.m. What is the temperature at 5 p.m.?

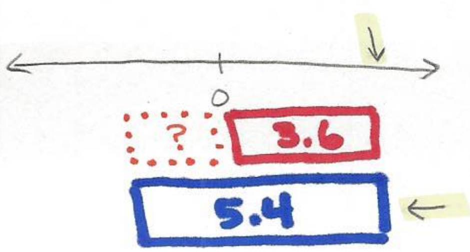


$$\begin{array}{r} \overset{7}{\cancel{8}}.\overset{11}{\cancel{1}} \\ -\ 5.3 \\ \hline 2.8 \end{array}$$

The temperature at 5pm is 2.8 degrees.

Question 06

The temperature at 8 p.m. is 3.6 degrees above zero. The temperature falls 5.4 degrees by midnight. What is the temperature at midnight?



$$\begin{array}{r} \overset{4}{\cancel{5}}.\overset{14}{\cancel{4}} \\ -\ 3.6 \\ \hline 1.8 \end{array}$$

The temperature at midnight is -1.8 degrees.