

HW: Worksheet

Warm up:

Evaluate.

$$1) \quad -6 \div \frac{5}{4} = -\frac{6}{1} \div \frac{5}{4} = -\frac{6}{1} \cdot \frac{4}{5} = -\frac{24}{5} = \textcircled{-4\frac{4}{5}}$$

$$2) \quad 2 + \left(-3\frac{7}{8}\right) = \frac{2}{1} + \left(-\frac{31}{8}\right) = \frac{16}{8} + \left(-\frac{31}{8}\right)$$

$$= \frac{16 + (-31)}{8} = \frac{-15}{8} = \textcircled{-1\frac{7}{8}}$$

$$3) \quad -5 - \left(-1\frac{2}{3}\right) = -\frac{5}{1} - \left(-\frac{5}{3}\right)$$

$$= -\frac{15}{3} - \left(-\frac{5}{3}\right)$$

$$= -\frac{15 - (-5)}{3} = -\frac{15 + 5}{3} = -\frac{20}{3} = \textcircled{-3\frac{1}{3}}$$

HW Solutions

$$8 = -2 + \frac{3}{4}x$$

$$+2 \quad +2$$

$$\frac{4}{3}(\underline{10}) = \left(\frac{3}{4}x\right)\frac{4}{3}$$

$$\frac{40}{3} = x$$

$$13\frac{1}{3} = x$$

$$10 \div \frac{3}{4}$$

$$10 \cdot \frac{4}{3}$$

$$-\frac{5}{6}x + \frac{2}{3} = 7$$

$$7 - \frac{2}{3}$$

$$\frac{7}{1} - \frac{2}{3}$$

$$\frac{21}{3} - \frac{2}{3} = \frac{19}{3}$$

$$-\frac{5}{6} \left(-\frac{5}{6}x \right) = \left(\frac{19}{3} \right) \left(-\frac{5}{6} \right)$$

$$x = -\frac{38}{5}$$

$$\begin{array}{r} 19 \\ \times 2 \\ \hline 38 \end{array}$$

$$x = -7\frac{3}{5}$$

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

$$\frac{3}{1} \left(\frac{1}{3}x \right) = \left(\frac{6}{5} \right) \frac{3}{1}$$

$$x = \frac{18}{5} = 3\frac{3}{5}$$

$-3 + 4\frac{1}{5}$
 $-\frac{3}{1} + \frac{21}{5}$
 $-\frac{15}{5} + \frac{21}{5}$
 $-15 + 21$

$$1) 6 = 3 - x$$

$$4) 5 - \frac{17}{4} = -17$$

$$2) -4 + \frac{3}{5}x = -9$$

$$5) \frac{2}{9} = 4\frac{1}{3} - \frac{1}{2}x$$

$$3) -\frac{4}{9} = 7 - \frac{5}{6}x$$

$$1) \quad 6 = 3 - x$$

$$2) \quad -4 + \frac{3}{5}x = -9$$

$+4$ $+4$

$$\frac{5}{3} \left(\frac{3}{5}x \right) = \left(\frac{-5}{1} \right) \frac{5}{3}$$

$$x = -\frac{25}{3} = \boxed{-8\frac{1}{3}}$$

$$-\frac{4}{9} - \frac{2}{9}$$

$$-\frac{4}{9} - \frac{6}{9}$$

$$-\frac{6}{9}$$

3) $-\frac{4}{9} = 7 - \frac{5}{6}x$

$$-\frac{6}{9} \rightarrow \rightarrow$$

$$-\frac{2}{3} \times \frac{2}{2} \left(-\frac{6}{9} \right) = \left(-\frac{5}{6}x \right) \left(-\frac{6}{6} \right)$$

$$\begin{array}{r} 1 \\ \times 67 \\ \hline 134 \end{array}$$

$$\begin{array}{r} 4 \\ \times 15 \\ \hline 20 \end{array}$$

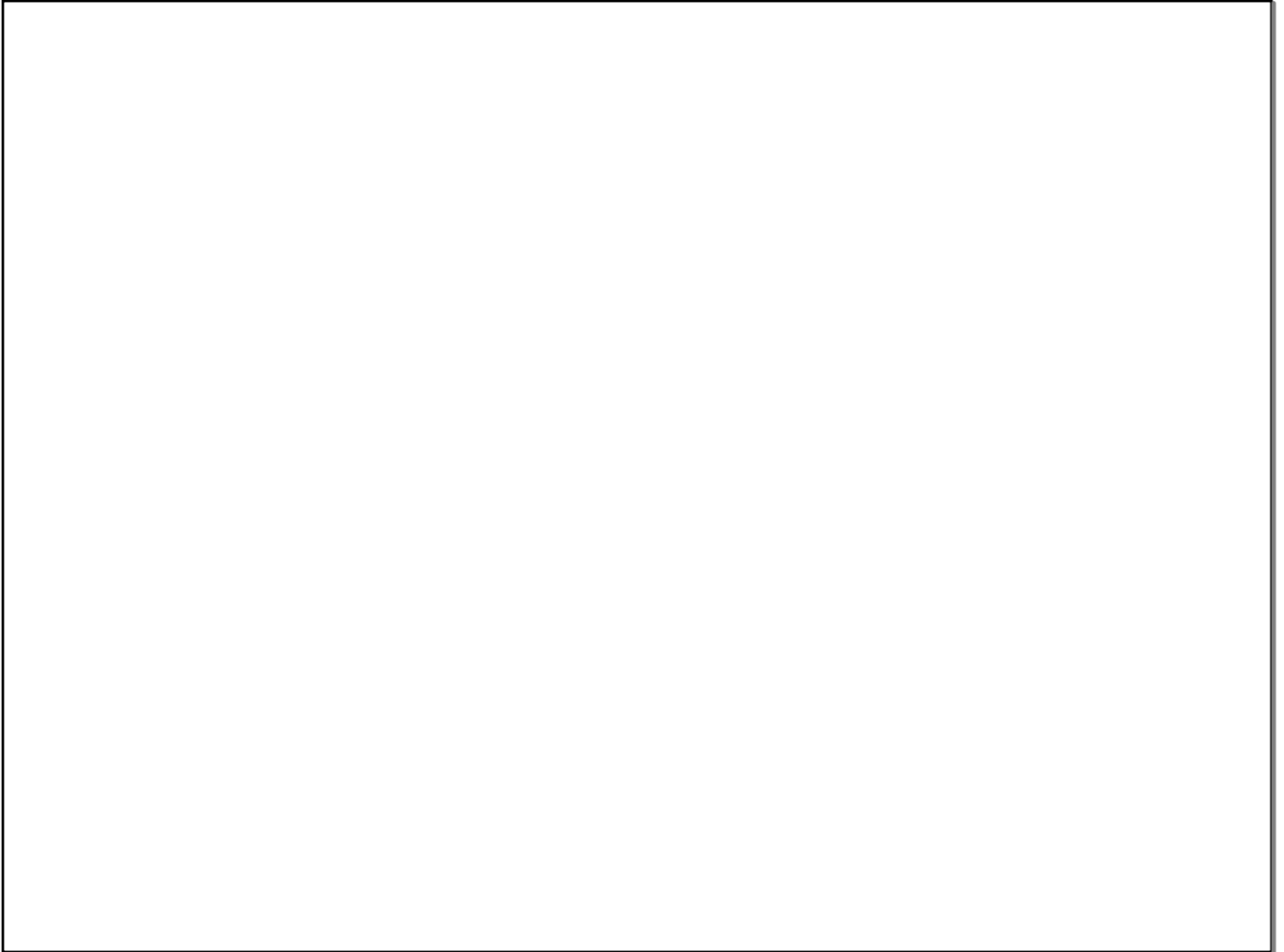
$$\frac{134}{15} = x$$

$$\underline{8 \frac{14}{15}} = x$$

$$4) \quad 5 - \frac{n}{4} = -17$$

$$5) \frac{2}{9} = 4\frac{1}{3} - \frac{1}{2}x$$

January 10, 2022



January 10, 2022

