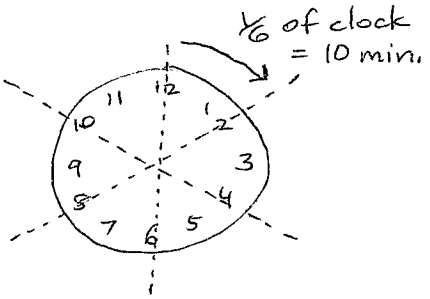
Math 60 7.8 supplement.

(1) My answer is $\frac{7}{6}$ hrs. How do I convert this to hours and minutes?

step 1: Write as a mixed number.

$$\frac{7}{6} = 1\frac{1}{6} = 1 \text{ hour} + \frac{1}{6} \text{ hour}$$

step 2: Convert the proper fraction to minutes, using 60 minutes = 1 hour.



$$\frac{1}{6} \text{ of } 1 \text{ hr} = \frac{1}{6} \text{ of } 60 \text{ min}$$
$$= \left(\frac{1}{6}\right)(60)$$
$$= 10 \text{ minutes.}$$

step 3: Put the two parts together: **1 hour 10 minutes**

Practice:

(2) $\frac{20}{3}$ hours

$= 6\frac{2}{3}$ hours

$= 6$ hours $+ \frac{2}{3}$ hour

$\frac{2}{3}(60) = 2 \cdot 20 = 40$ min.

$=$ **6 hours 40 min**

(3) $\frac{11}{5}$ hours

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

$= 2$ hours $+ \frac{1}{5}$ hour

$\frac{1}{5}(60) = 12$ min

2 hours 12 minutes

(4) $\frac{23}{12}$ hours

$= 1\frac{11}{12}$ hours

$= 1$ hour $+ \frac{11}{12}$ hour

$\frac{11}{12}(60) = 55$ min

1 hour 55 min

(5) $\frac{17}{10}$ hour

$= 1$ hour $+ \frac{7}{10}$ hour

$\frac{7}{10}(60) = 42$ min

1 hour 42 min