



## Multi-step Measurement Worksheets (Customary Units)

3. Sarah read for 1 hour 17 minutes each day for 6 days. If she took 3 minutes to read each page, how many pages did she read in 6 days?

Solution A

?

1 hr 17 min = 60 min + 17 min = 77 min

$$\begin{array}{r} 77 \\ \times 6 \\ \hline 462 \end{array}$$

462 min in 6 days

$$\begin{array}{r} 154 \\ 3 \overline{)462} \\ \underline{-3} \phantom{0} \\ 16 \phantom{0} \\ \underline{-15} \phantom{0} \\ 12 \phantom{0} \\ \underline{-12} \\ 0 \end{array}$$

Sarah read 154 pages in 6 days.

Solution B

?

$(1 \text{ hr} \times 6) + (17 \text{ min} \times 6) = 6 \text{ hr } 102 \text{ min}$   
 $60 \text{ min } \hat{=} 42 \text{ min}$   
 $= 7 \text{ hr } 42 \text{ min}$

3 min → 1 page  
 60 min → 20 pages  
 7 hr → 140 pages  
 42 min → 14 pages

140 pages + 14 pages = 154 pages  
 In 6 days Sarah read 154 pages.

4. Grades 3, 4, and 5 have their annual field day together. Each grade level is given 16 gallons of water. If there are a total of 350 students, will there be enough water for each student to have 2 cups?

Solution A

Total Water = 48 gal

$$\begin{array}{r} 48 \\ \times 16 \\ \hline 288 \\ + 480 \\ \hline 768 \end{array}$$

16 cups = 1 gallon  
 # of cups: 16 cups × 48 = 768 cups  
 350 × 2 cups = 700 cups  
 700 cups < 768 cups

There is enough for each child to have 2 cups.

Solution B

768 cups

$$\begin{array}{r} 256 \\ \times 3 \\ \hline 768 \end{array}$$

16 gal = 64 quarts  
 = 256 cups

$$\begin{array}{r} 16 \\ \times 4 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 64 \\ \times 4 \\ \hline 256 \end{array}$$

$$\begin{array}{r} 384 \\ 2 \overline{)768} \\ \underline{-6} \phantom{0} \\ 16 \phantom{0} \\ \underline{-16} \phantom{0} \\ 08 \phantom{0} \\ \underline{-8} \\ 0 \end{array}$$

There is enough water for 384 students to each have 2 cups. There is enough for each child to have 2 cups if there are 350 students.