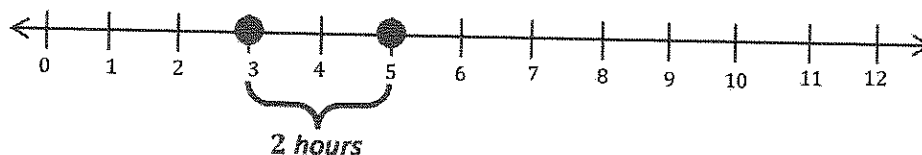## G4-M7-Lesson 3

Use RDW to solve Problem 1.

1. Benjamin's football practice ends at 5:00 p.m. If practice starts at 3:00 p.m., how many minutes long is practice? Use the number line to show your work.

2 hours

1 hour = 60 minutes

2 hours = 120 minutes

> I plot the times on the number line.
> Then, I convert the hours to minutes.

Benjamin's practice lasts for 120 minutes.

2. Complete the following conversion tables.

a.

Hours	Minutes
1	60
3	180
6	360

> 1 hour = 60 minutes
> I multiply the number of hours by 60 to find the number of minutes.

b.

Days	Hours
1	24
2	48
4	96

> 1 day = 24 hours
> I multiply the number of days by 24 to find the number of hours.

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Lesson 3:   Create conversion tables for units of time, and use the tables to solve
              problems.

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3. Solve.

   a.   9 hours 20 minutes = ___560___ minutes

   > There are 60 minutes in 1 hour.
   > 9×60 minutes $= 540$ minutes.

   b.   5 minutes 45 seconds = ___345___ seconds

   > There are 60 seconds in 1 minute.
   > 5×60 seconds $= 300$ seconds.

   c.   3 days 15 hours = ___87___ hours

   > There are 24 hours in 1 day.
   > 3×24 hours $= 72$ hours.

4. In the 1860s, it took a steamship about 1 week 2 days to cross the Atlantic Ocean. How many hours are there in 1 week 2 days?

1 week 2 days

x
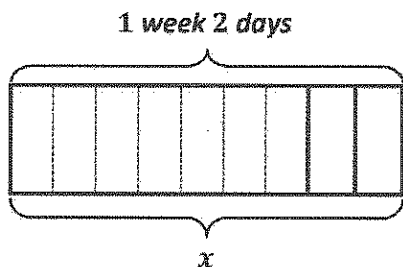
> I can draw a tape diagram to represent 1 week 2 days. I know that there are 7 days in 1 week, so 1 week 2 days = 9 days. I can partition my tape diagram into 9 units to represent 9 days.

1 unit: 1 day = 24 hours

9 units: 9×24 hours = 216 hours

$x = 216$ hours

$$\begin{array}{r} \overset{2}{}\overset{4}{} \\ \times 9 \\ \hline 2\ 1\ 6 \end{array}$$

> I can multiply 9×24 to find the total number of hours in 9 days, or 1 week 2 days.

There are 216 hours in 1 week 2 days.

Lesson 3:   Create conversion tables for units of time, and use the tables to solve problems.

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