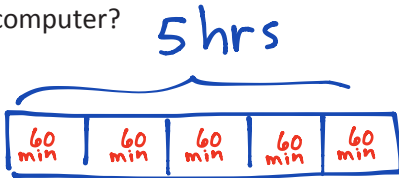Name _____   Date _____

Use RDW to solve Problems 1–2.

1. Jeffrey practiced his drums from 4:00 p.m. until 7:00 p.m. How many minutes did he practice? Use the number line to show your work.

3 hours

0 1 2 3 4 5 6 7 8 9 10 11 12

60 min 60 min 60 min

60 min × 3 = 180 min. Jeffrey practiced 180 minutes.

2. Isla used her computer for 5 hours over the weekend. How many minutes did she spend on the computer?

5 hrs

60 min | 60 min | 60 min | 60 min | 60 min

1 hour = 60 min
5 hours = 300 min

Isla spent 300 minutes on the computer.

3. Complete the following conversion tables and write the rule under each table.

a.

Hours	Minutes
1	60
2	120
5	300
9	540
12	720

The rule for converting hours to minutes is

hours times 60 .

b.

Days	Hours
1	24
3	72
6	144
8	192
20	480

The rule for converting days to hours is

days times 24 .

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4. Solve.

a. 10 hours 30 minutes = __630__ minutes

10 × 60 = 600   600 + 30 = 630

b. 6 minutes 15 seconds = __375__ seconds

6 × 60 = 360   360 + 15 = 375

c. 4 days 20 hours = __116__ hours

4 × 24 = 96   96 + 20 = 116

d. 3 minutes 45 seconds = __225__ seconds

3 × 60 = 180   180 + 45 = 225
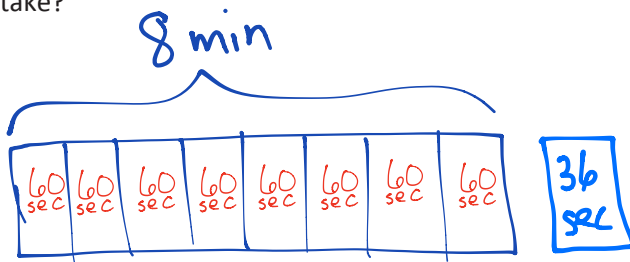
e. 23 days 21 hours = __573__ hours

23 × 24 = 552   552 + 21 = 573

f. 17 hours 5 minutes = __1025__ minutes

17 × 60 = 1020   1020 + 5 = 1025

5. Explain how you solved Problem 4(f).

Answers will vary.

First we converted hours into minutes by multiplying by 60. Then added the extra 5 minutes.

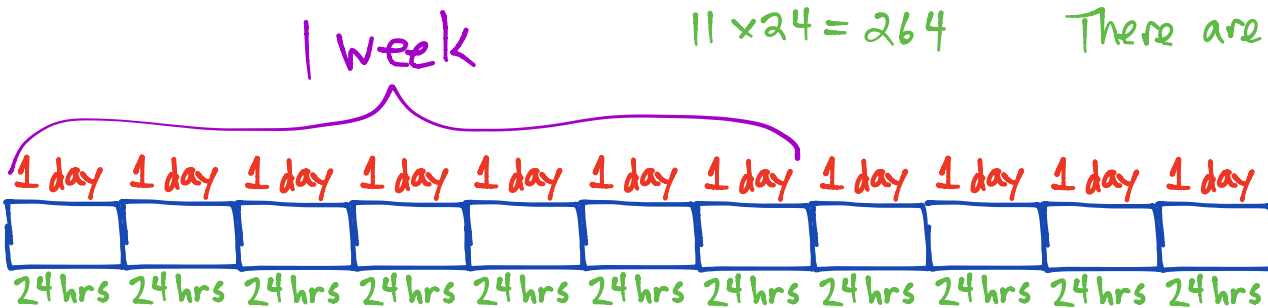6. It took a space shuttle 8 minutes 36 seconds to launch and reach outer space. How many seconds did it take?

8 min

| 60 sec | 60 sec | 60 sec | 60 sec | 60 sec | 60 sec | 60 sec | 60 sec | 36 sec

8 × 60 = 480 seconds

480 + 36 = 516 seconds

It took 516 seconds to reach outer space.

7. Apollo 16's mission lasted just over 1 week 4 days. How many hours are there in 1 week 4 days?

11 × 24 = 264   There are 264 hours.

1 week

1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day 1 day

24 hrs 24 hrs 24 hrs 24 hrs 24 hrs 24 hrs 24 hrs 24 hrs 24 hrs 24 hrs 24 hrs

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