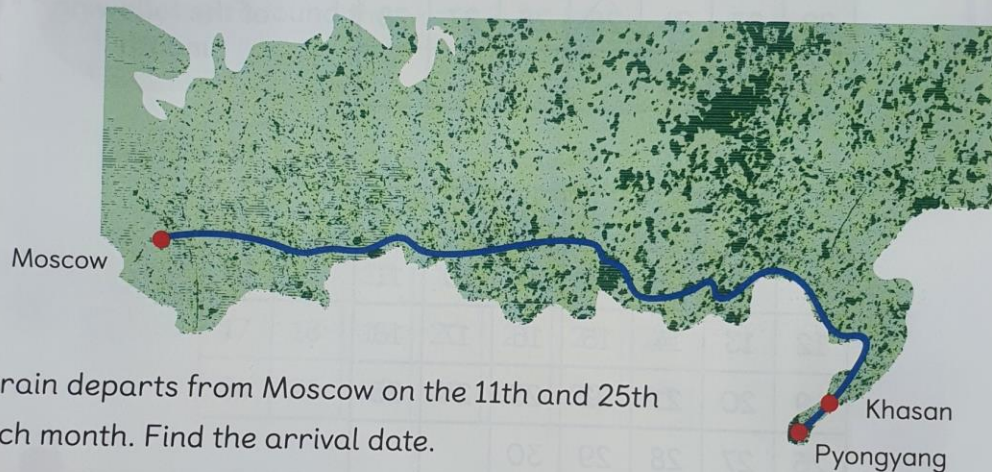


# Converting Units of Time

Lesson  
13

## In Focus

The longest train journey without changing trains is a 10 175-km journey.  
The journey can be completed in 210 h 20 min.



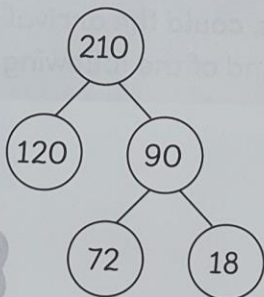
The train departs from Moscow on the 11th and 25th of each month. Find the arrival date.

## Let's Learn

210 h =    days

1 day = 24 h

10 days = 240 h  
5 days = 120 h



1 day = 24 h  
3 days =  $3 \times 24 \text{ h} = 72 \text{ h}$

210 h = 8 days 18 h

210 hours is about 9 days.

May

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June



			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

The arrival date may be on the 19th of the same month...


or on the 2nd of the following month.

If the train departs on the 25th and the journey takes 210 hours, could the arrival date be later than the 2nd of the following month?


## Guided Practice

- 1  took a total of 100 hours to build a treehouse. If  had worked non-stop, how many days would it have taken him to build the treehouse?

24 hours = 1 day

- 2  tried to go around the world in 80 hours.

January						
31					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

-  started on 3rd January. If she did take 80 hours, on which dates might she have completed her trip?

## Worksheet 13

### Converting Units of Time

- 1 Fill in the blanks.

(a) 50 h =  days  h

(b) 123 h =  days  h

(c) 400 h =  days  h

(d) 1 day 23 h =  h

(e) 7 days 17 h =  h

(f) 31 days 13 h =  h

- 2 Sam took 35 h to plan and design a model ship, 123 h to construct it and 4 h to paint it. How long did Sam take to build the model ship? Give your answer in days and hours.

- 3 An ocean liner sailed across the Atlantic Ocean in 180 h. If the ocean liner set off on 30th March, on which dates could it have completed its journey?

- 4 The journey from Sun City to Moon City by train takes 2 days and 8 h. The time taken for the journey from Moon City to Star City by train is 12 h less than the time taken to travel from Sun City to Moon City. What is the total time it takes to travel from Sun City to Moon City and then to Star City? Give your answer in days and hours.