

Time and Trail

Solve real problems with distance and time.

GRADE 4 • MA.4.M.2.1

MA.4.M.2.1 "Solve two-step real-world problems involving distances and intervals of time using any combination of the four operations."

NAME _____

DATE _____

PLAN TWO STEPS

First find one distance or time interval. Then use that result in a second operation to answer the question. Keep track of units, such as miles, minutes, or hours.

WORKED EXAMPLE

Mina starts biking at 7:45 a.m. She bikes for 25 minutes and rests for 10 minutes. What time does she finish?

1. 45 a.m. + 25 minutes = 8:10 a.m.

2. 10 a.m. + 10 minutes = 8:20 a.m.

Answer: 8:20 a.m.

PRACTICE 6 problems

- 1** A train leaves at 9:12 a.m. and arrives at 9:42 a.m. It waits for 6 minutes before leaving again. How many minutes pass from 9:12 a.m. until it leaves again?

ANSWER _____

- 2** Nora walks 3 miles each day for 4 days. Then she walks 2 more miles. How many miles does she walk altogether?

ANSWER _____

- 3** A shuttle travels 11 miles from its garage to a museum and 11 miles back. It makes 3 round trips. How far does the shuttle travel?

ANSWER _____

- 4** At 1:16 p.m., an art club begins a 23-minute project. Then the club spends 9 minutes putting away supplies. What time does the club finish?

ANSWER _____

- 5** A camper hikes 6 miles on Saturday and 9 miles on Sunday. Her hiking goal is 28 miles. How many more miles does she need to hike?

ANSWER _____

- 6** A bus travels 48 miles in 4 hours at an equal rate. It continues at the same rate for 3 more hours. How far does it travel in those 3 hours?

ANSWER _____

APPLY IT Show your work

- 1** Jayden's robotics club starts at 2:13 p.m. The club builds robots for 38 minutes and cleans up for 16 minutes. What time does the club end?

WORK SPACE

ANSWER _____

- 2** Kai rides 3 loops on a bike trail Saturday and 2 loops Sunday. Each loop is 13 miles long. How many miles does Kai ride altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

An aquarium is 18 miles from school. A bus drives to the aquarium and back for 3 days. Each day, it also drives 12 extra miles to pick up students. How many miles does the bus drive in all?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A train leaves at 9:12 a.m. and arrives at 9:42 a.m. It waits for 6 minutes before leaving again. How many minutes pass from 9:12 a.m. until it leaves again?	36 minutes
2	Nora walks 3 miles each day for 4 days. Then she walks 2 more miles. How many miles does she walk altogether?	14 miles
3	A shuttle travels 11 miles from its garage to a museum and 11 miles back. It makes 3 round trips. How far does the shuttle travel?	66 miles
4	At 1:16 p.m., an art club begins a 23-minute project. Then the club spends 9 minutes putting away supplies. What time does the club finish?	1:48 p.m.
5	A camper hikes 6 miles on Saturday and 9 miles on Sunday. Her hiking goal is 28 miles. How many more miles does she need to hike?	13 miles
6	A bus travels 48 miles in 4 hours at an equal rate. It continues at the same rate for 3 more hours. How far does it travel in those 3 hours?	36 miles

PART 2 • APPLY IT

- 3:07 p.m.** Add 38 minutes to 2:13 p.m. to get 2:51 p.m. Then add 16 more minutes to get 3:07 p.m.
- 65 miles** Add the loops, $3 + 2 = 5$ loops. Then multiply 5×13 to get 65 miles.

CHALLENGE

144 miles

Accept equivalent time notation, such as 3:07 PM. Require correct units for distance and elapsed-time answers.