LESSON MAKER PRO

Time Trail Missions

Use two steps to solve distance and time problems.

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

Read the question first, then decide what amount you need to find before you can answer it. For time intervals, count from the start time to the end time, and remember that 1 hour = 60 minutes.

WORKED EXAMPLE

A family walks 17 blocks each morning for 7 mornings. On the last morning, they walk 11 extra blocks. How many blocks do they walk in all?

1. Find the blocks from the 7 mornings: 17 × 7 = 119.
2. Add the extra blocks: 119 + 11 = 130.

Answer: 130 blocks

PRACTICE 6 problems

1 A shuttle leaves at 8:25 a.m. and arrives at 10:05 a.m. It spends 8 minutes stopped. How long is the shuttle moving?

ANSWER _____

2 Nina rides a 6-kilometer loop 5 times and then rides 12 more kilometers. How far does she ride altogether?

ANSWER _____

3 A 72-mile relay has 24 miles completed on the first day. The remaining miles are divided equally over 3 days. How many miles are completed each of those days?

ANSWER _____

4 Music rehearsal begins at 1:40 p.m. The rehearsal lasts 55 minutes, and then students have a 20-minute break before the bus leaves. What time does the bus leave?

ANSWER _____

5 A remote-control car travels 8 meters around a track for each lap. It completes 6 laps and then travels 14 more meters. How many meters does it travel altogether?

ANSWER _____

6 A 150-minute game event uses 60 minutes for its opening and closing activities together. The remaining time is divided equally among 5 rounds. How many minutes is each round?

ANSWER _____

APPLY IT Show your work

1 A video game tournament starts at 10:40 a.m. It has 5 rounds that each last 18 minutes. The breaks together last 24 minutes. What time does the tournament end?

WORK SPACE

ANSWER _____

2 A remote-control car travels 8 meters each minute for 6 minutes. Then it drives 14 meters back toward its starting point. How far is the car from its starting point?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A hiking challenge is 50 miles long. A student hikes 12 miles on Saturday and 18 miles on Sunday. On Monday, the student hikes at a steady rate of 4 miles each hour. How many hours will the Monday hike take? Explain how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Time Trail Missions

GRADE 4 · MA.4.M.2.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A shuttle leaves at 8:25 a.m. and arrives at 10:05 a.m. It spends 8 minutes stopped. How long is the shuttle moving?	**1 hour 32 minutes**
2	Nina rides a 6-kilometer loop 5 times and then rides 12 more kilometers. How far does she ride altogether?	**42 kilometers**
3	A 72-mile relay has 24 miles completed on the first day. The remaining miles are divided equally over 3 days. How many miles are completed each of those days?	**16 miles**
4	Music rehearsal begins at 1:40 p.m. The rehearsal lasts 55 minutes, and then students have a 20-minute break before the bus leaves. What time does the bus leave?	**2:55 p.m.**
5	A remote-control car travels 8 meters around a track for each lap. It completes 6 laps and then travels 14 more meters. How many meters does it travel altogether?	**62 meters**
6	A 150-minute game event uses 60 minutes for its opening and closing activities together. The remaining time is divided equally among 5 rounds. How many minutes is each round?	**18 minutes**

PART 2 · APPLY IT

1. **12:34 p.m.** The rounds last 5 × 18 = 90 minutes. Add 24 minutes for 114 minutes total, then add 1 hour 54 minutes to 10:40 a.m.
2. **34 meters** First find the distance traveled away from the start: 8 × 6 = 48 meters. Then subtract the 14 meters driven back.

CHALLENGE

5 hours. 50 - 12 - 18 = 20 miles remain, and 20 / 4 = 5 hours.

Accept equivalent time forms, such as 92 minutes for Problem 1 and 12:34 p.m. for the first apply problem. Students may use different correct two-step strategies if the units and final answer are correct.