LESSON MAKER PRO

Time in Motion

Find elapsed time and change time units.

GRADE 4 · 4.GM.3

4.GM.3 "Determine elapsed time and convert between units of time. Determine elapsed time. Convert one measure of time to another including seconds to minutes, minutes to hours, hours to days, and vice versa, using various models."

NAME _____ DATE _____

COUNT AND CONVERT

To find elapsed time, count from the start to the next hour, then count to the end. To change units, use 60 seconds = 1 minute, 60 minutes = 1 hour, and 24 hours = 1 day.

WORKED EXAMPLE

How much time passes from 1:12 to 2:38?

1. From 1:12 to 2:00 is 48 minutes.
2. From 2:00 to 2:38 is 38 minutes.
3. 48 + 38 = 86 minutes.
4. 86 minutes = 1 hour 26 minutes.

Answer: 1 hour 26 minutes

PRACTICE 6 problems

1 The clock shows when Maya starts reading. She stops at 8:25. How many minutes does she read?



ANSWER _____

2 How many minutes are in 180 seconds?

ANSWER _____

3 How many seconds are in 4 minutes?

ANSWER _____

4 Change 150 minutes to hours and minutes.

ANSWER _____

5 How many hours are in 3 days?

ANSWER _____

6 Change 52 hours to days and hours.

ANSWER _____

APPLY IT Show your work

1 A family movie starts at 6:45 p.m. and ends at 8:05 p.m. How long is the movie?

WORK SPACE

ANSWER _____

2 A school talent show rehearsal lasts 2 hours 10 minutes. How many minutes does it last?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A meteor shower watch starts at 11:50 p.m. and ends at 12:30 a.m. the next day. How many seconds does it last? Show how you found your answer.

WORK SPACE AND ANSWER

ANSWER KEY

Time in Motion

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	The clock shows when Maya starts reading. She stops at 8:25. How many minutes does she read?	**45 minutes**
2	How many minutes are in 180 seconds?	**3 minutes**
3	How many seconds are in 4 minutes?	**240 seconds**
4	Change 150 minutes to hours and minutes.	**2 hours 30 minutes**
5	How many hours are in 3 days?	**72 hours**
6	Change 52 hours to days and hours.	**2 days 4 hours**

PART 2 · APPLY IT

1. **1 hour 20 minutes** Count 15 minutes to 7:00, 1 hour to 8:00, and 5 minutes to 8:05.
2. **130 minutes** Change 2 hours to 120 minutes, then add 10 minutes.

CHALLENGE

2,400 seconds. From 11:50 p.m. to midnight is 10 minutes, and from midnight to 12:30 a.m. is 30 minutes. That is 40 minutes, and 40 × 60 = 2,400 seconds.

Accept 80 minutes for the movie's length. For the challenge, accept any correct method that accounts for the time crossing midnight.