

Time & Elapsed Time

Data & Measurement · Grade 4

Score: _____ / 10

★ Hard · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. A TV channel airs programs from 6:00 AM to midnight (12:00 AM).
Each program is 45 minutes long.
How many complete programs can air?

Answer: _____

2. A workshop runs from 9:15 AM to 4:00 PM with a 1-hour lunch break.
How many hours of workshop time are there (excluding lunch)?

Answer: _____

3. A road trip starts at 7:25 AM and ends at 4:10 PM.

How long is the trip?

Answer: _____

4. Mom drives 2 hours 35 minutes, then stops 25 min for gas, then drives 1 hour 50 minutes more.

How long is the total trip including the stop?

Answer: _____

5. A play begins at 7:35 PM and ends at 10:05 PM, with two 15-minute intermissions.

How much actual play time?

Answer: _____

6. If a TV show airs every 35 minutes starting at 8:00 AM, what time does the 5th show begin?

Answer: _____

7. A factory shift goes from 10:45 PM to 6:30 AM the next day.
How long is the shift?

Answer: _____

8. Train A leaves at 9:08 AM and arrives at 11:43 AM. Train B leaves at 9:25 AM and arrives at 12:05 PM.
Which train ride was longer, and by how much?

Answer: _____

9. From 8:55 AM to 2:10 PM is how long?

Answer: _____

10. A bakery opens at 5:40 AM and closes at 7:15 PM.
How many hours and minutes is it open?

Answer: _____

Answer Key

Time & Elapsed Time — Hard

1. 24 programs

6:00 AM to midnight = 18 hours = 1,080 minutes. $1,080 \div 45 = 24$ complete programs.

2. 5 hours 45 minutes

Total: 9:15 to 4:00 = 6 hr 45 min. Minus 1 hr lunch = 5 hours 45 minutes.

3. 8 hours 45 minutes

7:25 to 4:25 = 9 hours. 4:25 to 4:10 = subtract 15 min. Total: 8 hours 45 minutes.

4. 4 hours 50 minutes

$2h35 + 25 \text{ min} = 3h00$. $3h00 + 1h50 = 4h50$.

5. 2 hours

Total: 7:35 to 10:05 = 2 hr 30 min. Minus two 15-min breaks = $2 \text{ hr } 30 - 30 = 2 \text{ hours}$.

6. 10:20 AM

After 4 intervals: $4 \times 35 = 140 \text{ min} = 2 \text{ hours } 20 \text{ min}$ after 8:00 $\rightarrow$ 10:20 AM.

7. 7 hours 45 minutes

10:45 PM to 10:45 AM = 12 hours; back to 6:30 AM = $12 - 4h15 = 7 \text{ hours } 45 \text{ min}$.

8. Train B by 5 minutes

A: 9:08 to 11:43 = 2 hr 35 min. B: 9:25 to 12:05 = 2 hr 40 min. $B - A = 5 \text{ minutes}$.

9. 5 hours 15 minutes

8:55 to 2:55 = 6 hours. Back to 2:10 = subtract 45 min = 5 hours 15 minutes.

10. 13 hours 35 minutes

5:40 AM to 5:40 PM = 12 hours. 5:40 PM to 7:15 PM = 1 hour 35 min. Total: 13 hours 35 minutes.