

Answer Key

Elapsed time is the first place clock skills meet real arithmetic. The method to reinforce: hop the HOURS first, then walk the minutes by 5s — and when crossing an hour, count UP to the o'clock, then keep going (same counting-up trick as making change in the Coin Bureau packet).

Part 1 (page 2) • Detective Refresher

- Ex 1: 7:10 • 2:45 • 11:55 • 6:30 (11:55 — the hour hand is ALMOST at 12 but the hour is still 11!)
- Ex 2: 25 minutes (count by 5s: 5, 10, 15, 20, 25)

Part 2 (page 3) • Minutes on the Move

- 1a. 3:10 → 3:35: 25 minutes
- 1b. 8:05 → 8:25: 20 minutes
- 1c. 1:15 → 1:50: 35 minutes
- 2. $25 + 20 + 35 = 80$ minutes recovered

Part 3 (page 4) • Crossing the Hour

- 1a. 5:40 → 6:15: $20 + 15 = 35$ minutes
- 1b. 6:45 → 7:20: $15 + 20 = 35$ minutes
- 1c. 11:50 → 12:15: $10 + 15 = 25$ minutes
- 1d. 9:50 → 10:25: $10 + 25 = 35$ minutes

Part 4 (page 5) • Hours First, Then Minutes

- 1a. 3:00 → 5:00: 2 hours 0 minutes — a clean warm-up: hours only!
- 1b. 2:10 → 4:35: 2 hours 25 minutes
- 2. 2 hours 15 minutes (12:30 → 1:30 is one hour, → 2:30 is two, then 15 more)
- 3. circle '25 minutes' and '2 hours 15 minutes' — the other two are CLOCK times

Part 5 (page 6) • When Does It End?

- 1a. $2:20 + 45 \text{ min} \rightarrow 3:05$ (minute hand on the 1, hour hand just past the 3)
- 1b. $10:10 + 45 \text{ min} \rightarrow 10:55$ (minute hand on the 11, hour hand ALMOST at the next number, but the hour is still 10)
- 2. 7:55 — count up 20 by 5s from 7:35: 40, 45, 50, 55

Part 6 (page 7) • Morning or Night?

- Ex 1: eating breakfast=AM • watching the sunset=PM • brushing teeth before bed=PM • the school bell rings to START school=AM • eating dinner=PM • waking up=AM
- Ex 2: 7:00 AM is breakfast-time; 7:00 PM is bedtime-ish — same clock face, different half of the day
- Ex 3: 12:00 noon = lunch-time midday; 12:00 midnight = the middle of the night

Part 7 (page 8) • The Daily Case File

- 1. 45 minutes (8:30 → 9:00 is 30, plus 15)
- 2. 5:45 PM ($4:15 + 1 \text{ hour} = 5:15$, + 30 more = 5:45) — and it's PM: afternoon!
- 3. NO — there are only 45 minutes (7:00 → 7:45), not enough for a 60-minute episode
- 4. 8:00 PM — one full trip of the minute hand after 7:00 PM
- 5. 12:10 PM — hop 11:40 → 12:00 noon (20 min), then 10 more. Crossing noon flips AM to PM! Case closed!