

Stage 5 Cambridge Primary Mathematics Practice Worksheet

Thursday 13 August 2026

Syllabus Focus: Objective 5Gt.03 — Time Intervals (Bridging Through 60)

Topic: Calculating elapsed time in seconds, minutes, and hours using time number lines

Time Allowed: 30 Minutes | **Total Marks:** 20 Marks

Section A: The Base-60 Rule & Misconception Check

Question 1 [1 Mark]

Complete the statement:

There are _____ seconds in 1 minute, and _____ minutes in 1 hour.

Question 2 (TWM.07 Critiquing) [2 Marks]

Liam wants to find the time interval between **9:20 a.m.** and **10:10 a.m.**

He subtracts using column subtraction: $10.10 - 9.20 = 0.90$, so he answers **90 minutes**.

(a) Explain why Liam's method is incorrect. Refer to base-60 in your answer. [1]

(b) State the correct time interval between 9:20 a.m. and 10:10 a.m. [1]

Answer: _____ minutes

Question 3 [2 Marks]

Convert these time durations into standard form (hours and minutes):

(a) 1 hour 75 minutes = _____ hour(s) _____ minutes [1]

(b) 130 minutes = _____ hour(s) _____ minutes [1]

Section B: Using Time Number Lines

Question 4 (TWM.08 Improving) [2 Marks]

Below is an empty time number line drawn to calculate the time between **8:45 a.m.** and **10:20 a.m.**

+15 mins +1 hour +20 mins

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8:45 a.m. 9:00 a.m. 10:00 a.m. 10:20 a.m.

(a) Use the number line to find the total time interval. [1]

Answer: _____ hour(s) _____ minutes

(b) Draw your own jumps or explain how you could find the interval between **5:40 p.m.** and **7:15 p.m.** [1]

Question 5 [2 Marks]

Calculate the missing time interval for each event:

(a) A film starts at **2:50 p.m.** and ends at **4:15 p.m.**

Duration: _____ hour(s) _____ minutes [1]

(b) A runner starts a race at **11:38 a.m.** and crosses the finish line at **12:12 p.m.**

Duration: _____ minutes [1]

Section C: Bridging Seconds, Minutes, and Hours

Question 6 [2 Marks]

A science experiment timer started at **45 seconds** and stopped at **2 minutes 15 seconds**.

(a) How many seconds are needed to bridge from 45 seconds to 1 minute (60 seconds)? [1]

Answer: _____ seconds

(b) What was the total time interval of the experiment in seconds? [1]

Answer: _____ seconds

Question 7 (TWM.07 Critiquing) [2 Marks]

Two students calculated the time difference between **10:50 a.m.** and **1:15 p.m.**

- **Zara's Method:** 10 minutes (to 11:00) + 2 hours (to 1:00) + 15 minutes = 2 hours 25 minutes.
- **Ben's Method:** 2 hours 25 minutes = 145 minutes.

Evaluate both methods: Which representation is clearer for daily scheduling, and why?

Section D: Timetables and Problem Solving

Question 8 [2 Marks]

Look at the bus timetable below:

Bus Station	Departure / Arrival
Central Station	08:35
Park Road	09:12
North Terminal	10:05

(a) How long does the journey take from **Central Station** to **Park Road**? [1]

Answer: _____ minutes

(b) How long does the full journey take from **Central Station** to **North Terminal**? [1]

Answer: _____ hour(s) _____ minutes

Question 9 [2 Marks]

A baker puts bread in the oven at **11:42 a.m.**

The bread needs to bake for **45 minutes**.

At what time should the baker take the bread out of the oven? Show your working (you may sketch a number line).

Answer: _____ p.m.

Question 10 [3 Marks]

A swimmer completes 3 laps with the following lap durations:

- **Lap 1:** 52 seconds
- **Lap 2:** 58 seconds
- **Lap 3:** 1 minute 10 seconds

(a) What is the total time for all 3 laps combined in seconds? [1]

Answer: _____ seconds

(b) Express the total time in **minutes and seconds**. [1]

Answer: _____ minute(s) _____ seconds

(c) If the swim started at **3:15:00 p.m.**, at what exact time did the swimmer finish? [1]

Answer: **3** : _____ : _____ p.m.