

## Stage 5 Cambridge Primary Mathematics Practice Worksheet 4

Wednesday 12 August 2026

**Syllabus Focus:** Objective 5Gt.01 — Time Intervals Less Than One Second

**Topic:** Milliseconds, Decimal Fractions of a Second, and Digital Stopwatch Readings

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

### Section A: Units and Relationships

#### **Question 1 [1 Mark]**

Complete the sentence by choosing the correct number from the options below:

**10      60      100      1000**

There are \_\_\_\_\_ milliseconds (ms) in 1 second (s).

#### **Question 2 (TWM.03 Conjecturing) [2 Marks]**

Marcus says: "Because there are 10 millimetres in 1 centimetre, there must be 10 milliseconds in 1 second."

**(a)** Explain why Marcus's statement is incorrect. Refer to the meaning of the prefix **milli-** in your answer. [1]

**(b)** Write down the correct number of milliseconds in half a second (0.5 seconds). [1]

Answer: \_\_\_\_\_ ms

#### **Question 3 [2 Marks]**

Convert between seconds and milliseconds to complete the table below:

| Seconds (s) | Milliseconds (ms) |
|-------------|-------------------|
| 1 s         | 1000 ms           |
| 2 s         | _____ ms          |
| 0.5 s       | _____ ms          |
| _____ s     | 250 ms            |

### Section B: Reading Digital Stopwatches

#### **Question 4 [2 Marks]**

A digital stopwatch displays time as **Minutes : Seconds . Hundredths** (where 1 hundredth of a second = 10 ms).

Look at the stopwatch display below:

00 : 04 . 62

(a) How many whole seconds does the display show? [1]

Answer: \_\_\_\_\_ seconds

(b) Write down the fractional part of a second shown as a decimal in seconds. [1]

Answer: \_\_\_\_\_ seconds

#### Question 5 [2 Marks]

Four learners timed their reaction speeds in pressing a button. Their times are recorded below:

- **Anya:** 450 ms
- **Biol:** 0.8 seconds
- **Carlos:** 1200 ms
- **Dina:** 0.05 seconds

Write the learners in order of their reaction times, starting with the **fastest** (shortest time).

Fastest: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ :Slowest [2]

#### Section C: Comparing and Ordering Time Intervals

##### Question 6 [2 Marks]

Write <, >, or = to make each statement correct.

(a) 750 ms \_\_\_\_\_ 0.75 seconds [1]

(b) 1 second 20 ms \_\_\_\_\_ 1200 ms [1]

##### Question 7 [2 Marks]

An automated camera takes high-speed photos every 100 milliseconds.

(a) How many photos does the camera take in 1 whole second? [1]

Answer: \_\_\_\_\_ photos

(b) Express 100 milliseconds as a fraction of a second in its **simplest form**. [1]

Answer: \_\_\_\_\_ second

#### Section D: Problem Solving and Reasoning

##### Question 8 (TWM.03 Conjecturing) [2 Marks]

In an online estimation game, Priya tried to hit a button exactly at 10 seconds.

The screen displayed her score as: **10 s 350 ms**

(a) How many milliseconds was Priya **over** the 10 second target? [1]

Answer: \_\_\_\_\_ ms

**(b)** Write Priya's total recorded time as a single decimal number in seconds. [1]

Answer: \_\_\_\_\_ seconds

**Question 9 [2 Marks]**

Two sprinters crossed the finish line in a 100-metre dash.

- **Runner 1:** 11.84 seconds
- **Runner 2:** 11.29 seconds

**(a)** Which runner won the race? [1]

Answer: Runner \_\_\_\_\_

**(b)** Calculate the time difference between the two runners in **milliseconds**. Show your working.  
[1]

Answer: \_\_\_\_\_ ms

**Question 10 [3 Marks]**

A light flashes every 0.2 seconds.

**(a)** How many milliseconds is 0.2 seconds? [1]

Answer: \_\_\_\_\_ ms

**(b)** How many times will the light flash in a total duration of 3 seconds? Show your working step-by-step. [2]

Answer: \_\_\_\_\_ times