

## Time and Elapsed Time

Elapsed time is just how long something took. You can count up on a clock (or number line), or just subtract. Either method works — pick the one that feels easier for a given problem.

Conversion	Why
1 hour = 60 minutes	by definition
1 minute = 60 seconds	by definition

### Key Concepts

- Elapsed time** is the time from a start to an end.
- Counting up** on a clock or number line is the easiest way for many problems. Start at the earlier time and count forward in chunks (often 5, 10, or 15 minutes at a time).
- Subtracting** works too, especially when the times are on the same hour:  $3:40 - 3:15 = 25$  minutes.
- Conversion: 60 minutes in an hour, 60 seconds in a minute. Multiply or divide by 60 as needed.

### Worked Examples

① What is the elapsed time from 8:15 a.m. to 9:00 a.m.?

 Count up from 8:15: add 15 minutes to reach 8:30, then 30 more to reach 9:00. Total:  $15 + 30 = 45$  minutes.

 **Answer:** 45 minutes

② A movie starts at 3:10 p.m. and lasts 1 hour 25 minutes. When does it end?

 Add the hour first:  $3:10 \rightarrow 4:10$ . Then add 25 minutes:  $4:10 \rightarrow 4:35$ . The movie ends at 4:35 p.m.

 **Answer:** 4:35 p.m.

③ How many minutes are in 2 hours?

 Each hour has 60 minutes. So  $2 \text{ hours} = 2 \times 60 = 120$  minutes.

 **Answer:** 120 minutes

### Practice Problems

Find elapsed time, end time, or convert.

- From 10:00 to 10:45 = ? min \_\_\_\_\_
- From 1:20 to 2:00 = ? min \_\_\_\_\_
- Start 4:15, add 30 min = ? \_\_\_\_\_
- Start 7:50, add 25 min = ? \_\_\_\_\_
- 3 hr = ? min \_\_\_\_\_
- 120 min = ? hr \_\_\_\_\_
- From 9:10 to 11:10 = ? hr \_\_\_\_\_
- Start 6:30, add 1 hr 15 min = ? \_\_\_\_\_
- End 5:00, elapsed 45 min, start = ? \_\_\_\_\_
- From 8:25 to 9:10 = ? min \_\_\_\_\_

11. Start 11:40, add 50 min = ? \_\_\_\_\_

12. 90 min = ? hr ? min \_\_\_\_\_

**Study Tips**

-  Draw a number line of time. Mark the start and end, then jump forward in friendly chunks (10, 15, 30, 60 minutes).
-  When you cross an hour, break the time into two parts: minutes to the next hour, then full hours, then leftover minutes.
-  To convert minutes to hours and minutes, divide by 60:  $90 \div 60 = 1$  with remainder 30, so 90 min = 1 hr 30 min.

** Word Problems**

1. Recess starts at 11:45 a.m. and lasts 20 minutes. What time does it end?

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

2. Ben left home at 8:10 a.m. and arrived at school at 8:35 a.m. How long was his walk?

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

**Answer Key — with Friendly Explanations****Practice Problems**

1. Same hour,  $45 - 0 = 45$  minutes.

 **Answer:** 45 min

2. Count from 1:20 to 1:60 (which is 2:00): 40 minutes.

 **Answer:** 40 min

3.  $4:15 + 30 = 4:45$ .

 **Answer:** 4:45

4.  $7:50 + 10 = 8:00$ , then  $+15 = 8:15$ .

 **Answer:** 8:15

5.  $3 \times 60 = 180$  min.

 **Answer:** 180 min

6.  $120 \div 60 = 2$  hours.

 **Answer:** 2 hr

7. Same minute,  $11:10 - 9:10 = 2$  hours.

 **Answer:** 2 hr

8.  $6:30 + 1 \text{ hr} = 7:30$ ,  $+15 = 7:45$ .

 **Answer:** 7:45

9.  $5:00 - 45 \text{ min}$ : go back 45 min from 5:00 to 4:15.

 **Answer:** 4:15

10.  $8:25 \rightarrow 9:00$  is 35 min, then  $+10 = 45$  min total.

 **Answer:** 45 min

11.  $11:40 + 20 = 12:00$ , then  $+30 = 12:30$ .

 **Answer:** 12:30

12.  $90 \div 60 = 1 \text{ rem } 30$ .

 **Answer:** 1 hr 30 min

**Word Problems**

1.  $11:45 + 15 = 12:00$ ;  $+5 = 12:05$ .

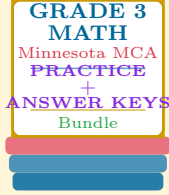
 **Answer:** 12:05 p.m.

2. Same hour,  $35 - 10 = 25$  min.

 **Answer:** 25 minutes

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