

Clock Time Detectives

Read each clock clue, then tell or estimate the time.

GRADE 3 • 3.MDR.5.2

3.MDR.5.2 "Tell and write time to the nearest minute and estimate time to the nearest fifteen minutes (quarter hour) from the analysis of an analog clock."

NAME _____

DATE _____

READ, THEN ROUND

Start with the minute hand. Each number on the clock stands for 5 minutes. Then use the hour hand to name the hour, and for an estimate, choose the closest quarter hour: :00, :15, :30, or :45.

WORKED EXAMPLE

The minute hand points to 7. The hour hand is between 4 and 5. What time is it to the nearest minute? About what time is it to the nearest 15 minutes?

1. The minute hand is on 7, so count 7 groups of 5 minutes: $7 \times 5 = 35$ minutes.
2. The hour hand has passed 4, so the time is 4:35.
3. 35 is closer to 4:30 than to 4:45.

Answer: Nearest minute: 4:35. Nearest 15 minutes: 4:30.

PRACTICE 6 problems

- 1** The minute hand points to 2. The hour hand is just past 8. Write the time to the nearest minute.

ANSWER _____

- 2** The minute hand points to 9. The hour hand is between 1 and 2. Write the time to the nearest minute.

ANSWER _____

- 3** The minute hand points to 4. The hour hand is just past 11. Write the time to the nearest minute.

ANSWER _____

- 4** The minute hand points to 12. The hour hand points to 5. Write the time to the nearest minute.

ANSWER _____

- 5** The minute hand points to 8. The hour hand is between 3 and 4. Estimate the time to the nearest 15 minutes.

ANSWER _____

- 6** The minute hand points to 1. The hour hand is just past 9. Estimate the time to the nearest 15 minutes.

ANSWER _____

APPLY IT Show your work

- 1** At soccer practice, the minute hand points to 4. The hour hand is between 6 and 7, closer to 6. What time does practice start to the nearest minute? Estimate the start time to the nearest 15 minutes.

WORK SPACE

ANSWER _____

- 2** At art club, the minute hand points to 10. The hour hand is between 5 and 6, closer to 6. What time does art club end to the nearest minute? Estimate the end time to the nearest 15 minutes.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A clock has its minute hand on 11. Its hour hand is between 6 and 7, very close to 7. Sam says the time is 6:45 because the hour hand is close to 7. Do you agree? Write the time to the nearest minute, estimate it to the nearest 15 minutes, and explain why.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	The minute hand points to 2. The hour hand is just past 8. Write the time to the nearest minute.	8:10
2	The minute hand points to 9. The hour hand is between 1 and 2. Write the time to the nearest minute.	1:45
3	The minute hand points to 4. The hour hand is just past 11. Write the time to the nearest minute.	11:20
4	The minute hand points to 12. The hour hand points to 5. Write the time to the nearest minute.	5:00
5	The minute hand points to 8. The hour hand is between 3 and 4. Estimate the time to the nearest 15 minutes.	3:45
6	The minute hand points to 1. The hour hand is just past 9. Estimate the time to the nearest 15 minutes.	9:00

PART 2 • APPLY IT

1. **Nearest minute: 6:20. Nearest 15 minutes: 6:15.** The minute hand on 4 means 20 minutes. Since 6:20 is 5 minutes from 6:15 and 10 minutes from 6:30, it estimates to 6:15.
2. **Nearest minute: 5:50. Nearest 15 minutes: 5:45.** The minute hand on 10 means 50 minutes, so the time is 5:50. It is 5 minutes from 5:45 and 10 minutes from 6:00, so it estimates to 5:45.

CHALLENGE

No. The time to the nearest minute is 6:55 because the minute hand on 11 means 55 minutes. The nearest 15-minute estimate is 7:00 because 6:55 is 5 minutes before 7:00.

Accept times written with or without a.m. or p.m. For the challenge, accept an explanation that uses the minute hand to show 55 minutes and explains why 7:00 is the closer quarter hour.