



TABE Math-E

PAXEN

Unit-5 Measurement and Data

Lesson 38

TIME

Revised: October 16, 2023

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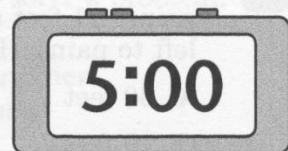
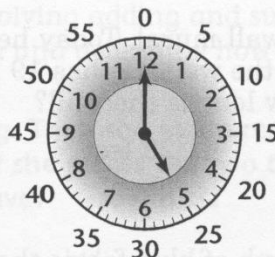
Math-E - Lesson 38 – TIME Measurement

Lesson 38

Measure Time

3.MD.1 – Medium

You can tell the time using analog or digital clocks. Both of these clocks show 5:00. A digital clock shows the time as digits. On an analog clock, two “hands” represent the time. The hour is represented by the shorter hand, and the minute is represented by the longer hand. The numbers 1 to 12 represent the hours. The smaller lines represent minutes. There are 60 minutes in an hour. Each hour number marks an interval of 5 minutes.



The hands on the clock move in a clockwise direction, meaning they move from 1 to 2 to 3, and so on, until they reach 12.

Example What time is shown on the clock?

1) Find the hour.

If the hour hand is between two numbers, the hour is the number that comes before the other. In this case, the hour is 12.

2) Find the minute.

You can count all of the minute lines, or you can skip count by 5 for each hour mark and then count on by ones: 5, 10, 15, 16, 17.

The time shown is 12:17.



You can solve problems involving **elapsed time**, or how much time has gone by, using a clock or using a number line.

Example How much time has elapsed?

1) Determine how many hours have passed.

The hour on the first clock is 11. The hour on the second clock is 11. The elapsed time is less than 1 hour.



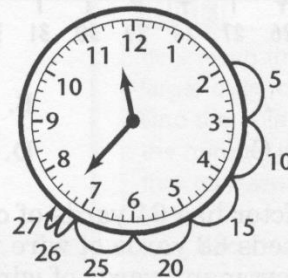
2) Determine how many minutes have passed.

Skip count by 5 for each hour mark and then count on by 1.

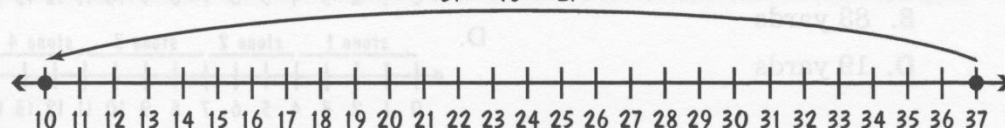
5, 10, 15, 20, 25, 26, 27.

So, 27 minutes have gone by.

3) You can check your answer using a number line.



$$37 - 10 = 27$$



Math-E - Lesson 38 – TIME Measurement

Test Example

1. What time is shown on the clock?

- A. 1:08
- B. 1:41
- C. 8:01
- D. 8:06



Hint

When determining the minutes, use the hour marks to skip count by 5s and then count by 1s until you reach the minute.

1. **D** The hour hand points to the 8, and the minute hand points to one mark past the 1, which is $5 + 1 = 6$ minutes.

Practice

Read each question. Select the correct answer.

1 Josh starts cooking dinner at 5:06. He finishes cooking at 5:45. How long does it take him to make dinner?

- A. 45 minutes
- B. 41 minutes
- C. 39 minutes
- D. 21 minutes

2 What time is shown on the clock?



- A. 3:10
- B. 3:50
- C. 4:50
- D. 10:20

3 Pam had a meeting at 2:25. It lasted 15 minutes. What time is it now?

- A. 2:05
- B. 2:08
- C. 2:40
- D. 3:00

4 Raymond ran a race in 1 hour and 28 minutes. If he finished the race at 3:47, what time did he begin the race?

- A. 3:19
- B. 3:15
- C. 2:19
- D. 2:15

5 How much time has passed?

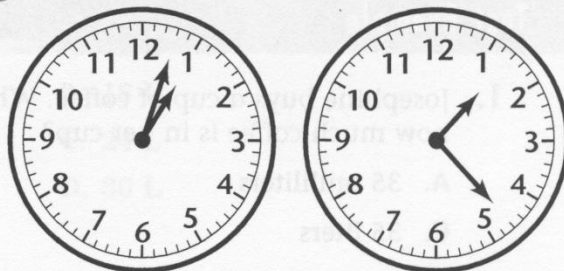


- A. 45 minutes
- B. 35 minutes
- C. 25 minutes
- D. 15 minutes

6 Ramona lives 30 minutes away from her doctor's office. She has an 8:55 doctor's appointment. What is the latest time Ramona can leave her house to get to the doctor's appointment on time?

- A. 9:25
- B. 8:52
- C. 8:25
- D. 7:25

7 How much time has passed?



- A. 25 minutes
- B. 23 minutes
- C. 20 minutes
- D. 3 minutes

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Measure Time

(3.MD.1)

- 1. C.** Use a clock or a number line, or since the hours are the same, subtract the minutes:
 $45 - 6 = 39$.
- 2. B.** The little hand is between the 3 and the 4, which means that it is approaching 4 o'clock, but is not yet 4; it is 3. The minute hand is pointing at the 10, which means 50 minutes.
- 3. C.** Skip count by 5s: 25, 30, 35, 40.
- 4. C.** Count back or subtract to find the minutes:
 $47 - 28 = 19$. Count back or subtract to find the hour: $3 - 1 = 2$.
- 5. D.** Since the hours are the same, subtract the minutes: $50 - 35 = 15$.
- 6. C.** Subtract or count back. $55 - 30 = 25$; 55, 50 (5), 45 (10), 40 (15), 35 (20), 30 (25).
- 7. C.** The first clock reads 1:03. The second clock reads 1:23. $23 - 3 = 20$.

Math-E - Practice 38 – TIME Measurement

Practice 38

Measure Time

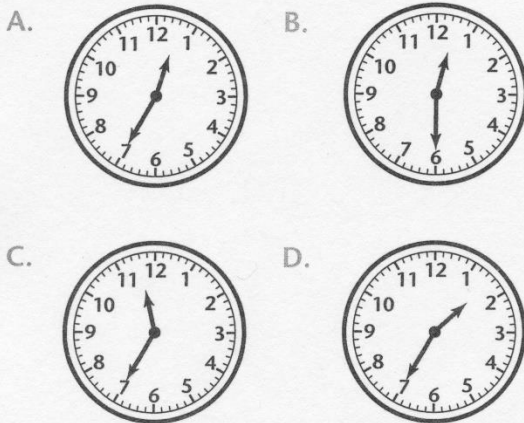
3.MD.1 – Medium

- 1 What time is shown on the clock?

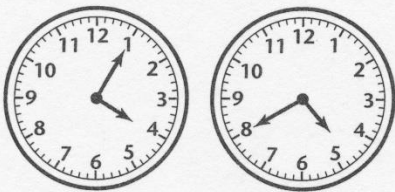


- A. 11:00
- B. 11:55
- C. 12:00
- D. 12:55

- 2 Which clock shows a time of 12:35?

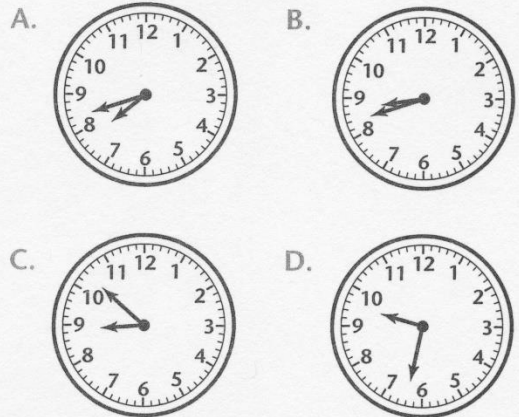
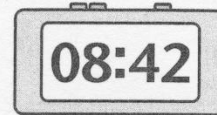


- 3 How much time has passed?

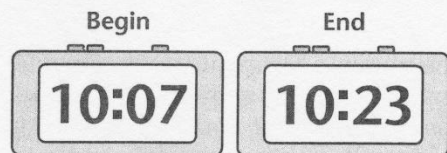


- A. 20 min
- B. 25 min
- C. 35 min
- D. 55 min

- 4 Which analog clock matches the time on the digital clock?



- 5 How much time has passed?



- A. 23 min
- B. 20 min
- C. 18 min
- D. 16 min

- 6 What time is shown on the clock?



- A. 6:02
- B. 6:05
- C. 12:00
- D. 12:30

Math-E - Practice 38 – TIME Measurement

7 Marissa gets a 15-minute break at work. She starts her break at 10:21. What time does Marissa's break end?

- A. 10:26
- B. 10:35
- C. 10:36
- D. 10:41

8 Miguel leaves his house at 8:37 and arrives at work at 9:00. How long does it take Miguel to get to work?

- A. 37 min
- B. 23 min
- C. 20 min
- D. 13 min

9 Jiang puts cupcakes in the oven at 3:45. They must bake for 25 minutes. What time does Jiang pull the cupcakes out of the oven?

- A. 4:45
- B. 4:25
- C. 4:15
- D. 4:10

10 Rodger walks his dog for 45 minutes. He leaves the house at 8:30. What time does Rodger return from his walk?

- A. 8:45
- B. 9:15
- C. 9:30
- D. 9:45

11 Natia changes the oil in her car. She starts at 5:18, and it takes her 40 minutes. What time does Natia finish changing the oil?

- A. 5:40
- B. 5:48
- C. 5:58
- D. 6:18

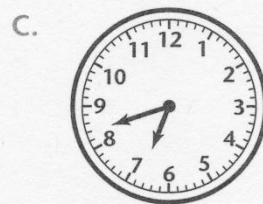
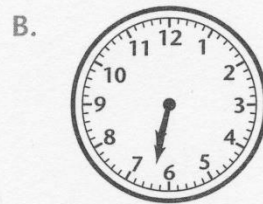
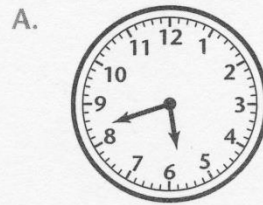
12 Jeremy participates in a wheelchair basketball league. He plays a 40-minute-long game with his friends. They start playing at 3:00. What time will the game be over?

- A. 3:40
- B. 3:50
- C. 4:30
- D. 4:40

13 A plane takes off at 2:15 and lands at 4:00. How long is the flight?

- A. 1 hr 45 min
- B. 1 hr 15 min
- C. 1 hr
- D. 45 min

14 Juanita rents a movie that is 1 hour and 42 minutes long. She starts the movie at 5:00. Which two clocks show the time the movie ends?



15 Akna begins her morning jog at 4:50. She jogs for 45 minutes. What time is Akna done jogging?

- A. 4:35
- B. 5:05
- C. 5:35
- D. 5:45

Math-E - Practice 38 – TIME Measurement

Practice 38

Measure Time

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(3.MD.1)

1. B. The hour hand is between 11 and 12, which means it is approaching 12 o'clock, but it is not yet 12. The minute hand is pointing at 11, which means 55 minutes.
2. A. The hour hand is between 12 and 1, which means it is approaching 1 o'clock, but it is not yet 1. The minute hand is pointing at 7, which means 35 minutes.
3. C. The first clock reads 4:05. The second clock reads 4:40. Subtract the minutes: $40 - 5 = 35$.
4. B. The hour hand is between 8 and 9, which means it is approaching 9 o'clock, but it is not yet 9. The minute hand is pointing at the second mark past 8, which means 42 minutes.
5. D. Because the hours are the same, subtract the minutes: $23 - 7 = 16$.
6. A. The hour hand is just past the 6, which means it recently turned 6 o'clock. The minute hand is pointing at the second mark past 12, which means 2 minutes.
7. C. The hour stays the same, so add the minutes: $21 + 15 = 36$. Marissa's break ends at 10:36.
8. B. Add up from 37 minutes to get to the next hour, or 60 minutes: $37 + 3 = 40$; $40 + 20 = 60$; $20 + 3 = 23$. It takes Miguel 23 minutes to get to work.
9. D. Skip count the minutes by 5s: 45, 50 (5), 55 (10), 4:00 (15), 5 (20), 10 (25). Jiang takes the cupcakes out of the oven at 4:10.
10. B. Skip count the minutes by 5s: 30, 35 (5), 40 (10), 45 (15), 50 (20), 55 (25), 9:00 (30), 5 (35), 10 (40), 15 (45). Rodger returns from his walk at 9:15.
11. C. Because the hour remains the same, add the minutes: $18 + 40 = 58$. Natia finishes her oil change at 5:58.
12. A. Because the hour remains the same, add the minutes: $0 + 40 = 40$. The game will be over at 3:40.
13. A. Add 1 hour to 2:15, which equals 3:15. Then, skip count the minutes up to 4:00: 15, 20 (5), 25 (10), 30 (15), 35 (20), 40 (25), 45 (30), 50 (35), 55 (40), 4:00 (45). The flight is 1 hour and 45 minutes.
14. C, F. First, add the hours. 5:00 plus 1 hour means 6:00. Then, add the minutes $0 + 42 = 42$. The movie ends at 6:42. On an analog clock, 6:42 has the hour hand between the 6 and 7 and the minute hand at the second mark past 8.
15. C. Skip count the minutes by 5s: 50, 55 (5), 5:00 (10), 5 (15), 10 (20), 15 (25), 20 (30), 25 (35), 30 (40), 35 (45). Akna is done jogging at 5:35.