

MATH 5 QUARTER 1 LESSON 1: 12-24 HOUR TIME PROBLEM SOLVING (30 MULTIPLE CHOICE ITEMS)

ITEM 1

Scenario: A jeepney from Cebu South Bus Terminal to Mactan departs at 05:30. The travel time is 1 hour and 15 minutes. What time will it arrive at the destination in 12-hour format?

- A. 5:45 AM
- B. 6:45 AM
- C. 7:45 AM
- D. 6:30 AM

ITEM 2

Scenario: SM City Cebu opens at 10:00 AM. A customer arrives at the mall parking lot at 22:40. How many hours has the mall been open when the customer arrives?

- A. 10 hours 40 minutes
- B. 11 hours 40 minutes
- C. 12 hours 40 minutes
- D. 9 hours 40 minutes

ITEM 3

Scenario: A ferry from Cebu to Bohol leaves at 3:15 PM. The voyage takes 2 hours and 45 minutes. What is the arrival time in 24-hour format?

- A. 17:00
- B. 18:00
- C. 19:00
- D. 16:00

ITEM 4

Scenario: A morning market in Carbon opens at 04:10 and closes at 10:30. If Maria arrives at 8:45 AM, how much time does she have to shop before closing?

- A. 1 hour 15 minutes
- B. 1 hour 30 minutes
- C. 1 hour 45 minutes
- D. 2 hours 15 minutes

ITEM 5

Scenario: A flight from Mactan-Cebu International Airport departs at 19:25 for Manila. The flight duration is 1 hour and 50 minutes. What time will it land in Manila in 12-hour format?

- A. 8:15 PM
- B. 9:15 PM
- C. 10:15 PM
- D. 7:15 PM

ITEM 6

Scenario: A bakery in Banilad starts baking bread at 03:40 and finishes the last batch at 11:15 AM. How long did the bakery spend baking all batches?

- A. 6 hours 35 minutes
- B. 7 hours 25 minutes
- C. 7 hours 35 minutes
- D. 8 hours 35 minutes

ITEM 7

Scenario: A basketball game at Cebu Coliseum starts at 2:30 PM and ends at 17:10. How long did the game last?

- A. 2 hours 20 minutes
- B. 2 hours 40 minutes
- C. 3 hours 20 minutes
- D. 3 hours 40 minutes

ITEM 8

Scenario: A convenience store operates 24 hours a day. If a staff member starts their shift at 21:00 and works for 8 hours, what time will their shift end in 12-hour format?

- A. 4:00 AM
- B. 5:00 AM
- C. 6:00 AM
- D. 7:00 AM

ITEM 9

Scenario: A school bus picks up students at 06:50 and drops them off at school at 7:25 AM. How long is the bus ride?

- A. 25 minutes
- B. 30 minutes
- C. 35 minutes
- D. 40 minutes

ITEM 10

Scenario: A concert at Waterfront Cebu City Hotel starts at 8:15 PM and runs for 3 hours and 20 minutes. What is the end time in 24-hour format?

- A. 22:35
- B. 23:35
- C. 00:35 (next day)
- D. 21:35

ITEM 11

Scenario: A seafood delivery from Lapu-Lapu City to Cebu City leaves at 02:15 and arrives at 3:05 AM. How long does the delivery take?

- A. 40 minutes
- B. 45 minutes
- C. 50 minutes
- D. 55 minutes

ITEM 12

Scenario: A bank in Ayala Center Cebu opens at 9:00 AM and closes at 17:00. How many hours is the bank open each day?

- A. 7 hours
- B. 8 hours
- C. 9 hours
- D. 10 hours

ITEM 13

Scenario: A movie at a cinema starts at 14:30 and has a runtime of 2 hours and 5 minutes. What time will it end in 12-hour format?

- A. 3:35 PM
- B. 4:35 PM
- C. 5:35 PM
- D. 6:35 PM

ITEM 14

Scenario: A street food vendor starts selling at 16:45 and stops at 10:00 PM. How long does the vendor sell food each day?

- A. 4 hours 15 minutes
- B. 5 hours 15 minutes
- C. 6 hours 15 minutes
- D. 7 hours 15 minutes

ITEM 15

Scenario: A ferry from Cebu to Negros leaves at 05:45 and arrives at 8:20 AM. What is the travel time in hours and minutes?

- A. 2 hours 25 minutes
- B. 2 hours 35 minutes
- C. 2 hours 45 minutes
- D. 3 hours 35 minutes

ITEM 16

Scenario: A gym in IT Park opens at 05:30 and closes at 22:00. If Juan works out from 7:15 AM to 8:30 AM, how much more time is the gym open after he leaves?

- A. 12 hours 30 minutes
- B. 13 hours 30 minutes
- C. 14 hours 30 minutes
- D. 15 hours 30 minutes

ITEM 17

Scenario: A bus from Cebu to Dumaguete departs at 3:40 PM and arrives at 20:15. How long is the trip?

- A. 4 hours 25 minutes
- B. 4 hours 35 minutes
- C. 5 hours 25 minutes
- D. 5 hours 35 minutes

ITEM 18

Scenario: A laundry shop starts operating at 07:20 and closes at 8:45 PM. How many hours and minutes is the shop open?

- A. 12 hours 25 minutes
- B. 13 hours 15 minutes
- C. 13 hours 25 minutes
- D. 14 hours 25 minutes

ITEM 19

Scenario: A flight from Manila to Cebu lands at 00:10 (midnight). If the flight took 1 hour and 45 minutes, what was the departure time from Manila in 12-hour format?

- A. 9:25 PM (previous day)
- B. 10:25 PM (previous day)
- C. 11:25 PM (previous day)
- D. 12:25 AM (same day)

ITEM 20

Scenario: A morning jogging group meets at 05:15 and finishes their run at 6:30 AM. If they take a 10-minute break halfway, how long is their actual jogging time?

- A. 1 hour 5 minutes
- B. 1 hour 15 minutes
- C. 1 hour 25 minutes
- D. 1 hour 35 minutes

ITEM 21

Scenario: A coffee shop in Kasambagan opens at 06:15 and closes at 21:45. What is the closing time in 12-hour format?

- A. 8:45 PM
- B. 9:45 PM
- C. 10:45 PM
- D. 7:45 PM

ITEM 22

Scenario: A construction crew starts work at 4:30 AM and stops at 15:10. How long do they work each day?

- A. 9 hours 40 minutes
- B. 10 hours 20 minutes
- C. 10 hours 40 minutes
- D. 11 hours 20 minutes

ITEM 23

Scenario: A movie marathon at a Cebu cinema starts at 11:00 AM and ends at 20:30. How many hours does the marathon last?

- A. 8 hours 30 minutes
- B. 9 hours 30 minutes
- C. 10 hours 30 minutes
- D. 11 hours 30 minutes

ITEM 24

Scenario: A bus from Cebu to Cagayan de Oro departs at 18:20 and arrives at 04:10 the next day. What is the travel time?

- A. 8 hours 50 minutes
- B. 9 hours 50 minutes
- C. 10 hours 50 minutes
- D. 11 hours 50 minutes

ITEM 25

Scenario: A restaurant in Fuente Osmeña serves breakfast from 05:45 to 10:00 AM.
How long is breakfast service?

- A. 3 hours 15 minutes
- B. 4 hours 15 minutes
- C. 4 hours 30 minutes
- D. 5 hours 15 minutes

ITEM 26

Scenario: A radio show in Cebu airs at 23:15. What time is this in 12-hour format?

- A. 10:15 PM
- B. 11:15 PM
- C. 12:15 AM
- D. 9:15 PM

ITEM 27

Scenario: A student starts doing homework at 7:25 PM and finishes at 22:05. How long did they spend on homework?

- A. 2 hours 40 minutes
- B. 3 hours 30 minutes
- C. 3 hours 40 minutes
- D. 4 hours 30 minutes

ITEM 28

Scenario: A ferry from Cebu to Siquijor leaves at 07:30 and takes 3 hours and 20 minutes. What is the arrival time in 12-hour format?

- A. 10:50 AM
- B. 11:50 AM
- C. 12:50 PM
- D. 9:50 AM

ITEM 29

Scenario: A store in Colon Street opens at 8:15 AM and closes at 19:30. How many hours is it open?

- A. 10 hours 15 minutes
- B. 11 hours 15 minutes
- C. 11 hours 30 minutes
- D. 12 hours 15 minutes

ITEM 30

Scenario: A night bus from Cebu to Manila departs at 9:45 PM and arrives at 08:30 the next morning. How long is the journey?

- A. 10 hours 45 minutes
- B. 11 hours 15 minutes
- C. 11 hours 45 minutes
- D. 12 hours 15 minutes