

More than One Answer Type

7. What is the time if the minute hand is on 4 and the hour hand is on 8?

- A) 8:20 B) 8:30 C) 8:40 D) 8:45

Key: A

Explanation: Minute hand on 4 = 20 minutes; hour hand on 8 = 8:20.

8. What is not the time if the hour hand is between 2 and 3, and the minute hand is on 9?

- A) 2:45 B) 3:45 C) 2:15 D) 3:15

Key: B, C, D

Explanation: Hour hand between 2 and 3 means it is 2-something; minute hand on 9 = 45 minutes ? 2:45. So not 3:45, 2:15, or 3:15.

Fill In the Blanks

9. A train departs at 9:00 AM and arrives at 1:30 PM. The travel time is ____ hours and ____ minutes.

Key: 4 hours, 30 minutes

Explanation: 1:30 PM - 9:00 AM = 4 hours 30 minutes.

10. To convert 8:00 PM to 24-hour time, it becomes ____.

Key: 20:00

Explanation: 8:00 PM = 20:00.

Matching Type

11. Instructions: Match each description of an analog clock time to the correct time.

Clock Descriptions:

1. The hour hand is on 10 and the minute hand is on 4.
2. The hour hand is between 2 and 3, and the minute hand is on 7.
3. The hour hand is on 6, and the minute hand is on 12.
4. The hour hand is on 11 and the minute hand is on 9.

Times:

- A. 6:00
- B. 11:45
- C. 10:20
- D. 2:35

Key: 1.C, 2.D, 3.A, 4.B

Answer the Following Questions

12. You have a doctor's appointment at 10:30 AM and need to be at the pharmacy by 11:15 AM. How much time do you have between your appointment and the pharmacy visit?

Key: 45 minutes

Explanation: 11:15 - 10:30 = 45 minutes.

13. If a TV show starts at 8:00 PM and ends at 9:25 PM, how long is the TV show?

Key: 1 hour 25 minutes

Explanation: $9:25 - 8:00 = 1 \text{ hour } 25 \text{ minutes.}$

LEARNERS TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. What is the time shown on an analog clock where the hour hand is on 3 and the minute hand is on 12?

- a) 3:00 b) 3:30 c) 3:15 d) 3:45

Key: a

Explanation: Minute hand on 12 = :00; hour hand on 3 = 3:00.

2. If the minute hand is on 9 and the hour hand is on 4, what is the time?

- a) 4:15 b) 4:45 c) 4:30 d) 4:05

Key: b

Explanation: Minute hand on 9 = 45 minutes; hour hand on 4 = 4:45.

3. Convert 8:30 PM to 24-hour time.

- a) 20:30 b) 18:30 c) 20:45 d) 21:30

Key: a

Explanation: 8:30 PM = 20:30.

4. What time is 15:00 in a 12-hour clock system?

- a) 3:00 PM b) 3:00 AM c) 12:00 PM d) 1:00 PM

Key: a

Explanation: $15:00 - 12 = 3:00 \text{ PM.}$

5. How many minutes are there between 10:20 AM and 12:00 PM?

- a) 80 minutes b) 100 minutes c) 90 minutes d) 120 minutes

Key: b

Explanation: From 10:20 to 12:00 = 1 hour 40 minutes = 100 minutes.

6. If the hour hand is between 2 and 3 and the minute hand is on 4, what is the time?

- a) 2:20 b) 2:25 c) 2:30 d) 2:15

Key: a

Explanation: Minute hand on 4 = 20 minutes; hour hand between 2 and 3 = 2:20.

ADVANCED LEVEL

More than One Answer Type

7. Which times fall in the PM period?

A) 09:00

B) 12:30

C) 15:45

D) 23:00

Key: C, D

Explanation: PM times are after 12:00: 15:45 (3:45 PM) and 23:00 (11:00 PM).

8. Which of the following times are correctly represented in 24-hour format?

A) 11:00 PM

B) 14:00

C) 03:30 AM

D) 19:15

Key: B, C, D

Explanation:

A) 11:00 PM is 23:00, not "11:00 PM" as 24-hour format. (Wrong)

B) 14:00 (Correct)

C) 03:30 (Correct)

D) 19:15 (Correct)

Fill In the Blanks

9. A meeting starts at 2:30 PM and ends at 4:00 PM. The duration of the meeting is _____ hours and _____ minutes.

Key: 1 hour, 30 minutes

Explanation: $4:00 - 2:30 = 1 \text{ hour } 30 \text{ minutes}$.

10. If the hour hand is on 6 and the minute hand is on 9, the time is _____.

Key: 6:45

Explanation: Minute hand on 9 = 45 minutes; hour hand on 6 = 6:45.

Matching Type

11. Instructions: Match each 12-hour time to its equivalent 24-hour time.

12-Hour Times:

1. 8:15 AM

2. 4:50 PM

3. 12:30 PM

4. 9:05 AM

24-Hour Times:

A. 16:50

B. 08:15

C. 09:05

D. 12:30

Key: 1.B,2.A,3.D,4.C

Answer the Following Questions

12. A class begins at 1:00 PM and ends at 2:45 PM. How long is the class?

Key: 1 hour 45 minutes

Explanation: $2:45 - 1:00 = 1 \text{ hour } 45 \text{ minutes}$.

13. A workshop starts at 3:30 PM and ends at 6:00 PM. What is the duration of the workshop?

Key: 2 hours 30 minutes

Explanation: $6:00 - 3:30 = 2$ hours 30 minutes.

HOURS AND MINUTES

TEACHING TASK

CONCEPTUAL UNDERSTANDING QUESTIONS (CUQ's)

Multiple Choice Questions

1. How many hours are there in 480 minutes?

- a) 8 hours b) 7 hours c) 9 hours d) 6 hours

Key: a

Explanation: $480 \div 60 = 8$ hours.

2. Calculate 35 minutes after 11:50 AM.

- a) 12:15 PM b) 12:05 PM c) 12:25 PM d) 12:00 PM

Key: c

Explanation: $11:50 + 35$ minutes = 12:25 PM.

3. What is the time 1 hour and 45 minutes after 5:30 PM?

- a) 7:15 PM b) 6:15 PM c) 6:30 PM d) 7:30 PM

Key: a

Explanation: $5:30 + 1$ hour 45 minutes = 7:15 PM.

4. Convert 150 minutes to hours and minutes.

- a) 2 hours and 30 minutes b) 3 hours
c) 2 hours and 15 minutes d) 3 hours and 30 minutes

Key: a

Explanation: $150 \div 60 = 2$ hours 30 minutes.

5. If you need to leave for an appointment 20 minutes before 3:45 PM, what time should you leave?

- a) 3:25 PM b) 3:05 PM c) 3:15 PM d) 3:30 PM

Key: a

Explanation: $3:45 - 20$ minutes = 3:25 PM.

6. A class starts at 9:10 AM and lasts for 2 hours and 30 minutes. What time does the class end?

- a) 11:40 AM b) 11:30 AM c) 12:10 PM d) 12:00 PM

Key: a

Explanation: $9:10 + 2 \text{ hours } 30 \text{ minutes} = 11:40 \text{ AM}$.

ADVANCED LEVEL

More than One Answer Type

7. Which of the following are correctly converted to hours and minutes?

- | | |
|----------------|----------------|
| A) 180 minutes | B) 135 minutes |
| C) 250 minutes | D) 75 minutes |

Key: A, B, D

Explanation:

- A) $180 \div 60 = 3$ (Correct)
 B) $135 \div 60 = 2 \text{ hours } 15$ (Correct)
 C) $250 \div 60 = 4 \text{ hours } 10$ (Wrong)
 D) $75 \div 60 = 1 \text{ hour } 15$ (Correct)

8. Convert these times to minutes:

- | | |
|---------------------------|--------------------------|
| A) 2 hours and 30 minutes | B) 1 hour and 10 minutes |
| C) 4 hours and 45 minutes | D) 3 hours |

Key: A, B, C, D

Explanation: All are correct.

Fill In the Blanks

9. To convert 4 hours and 30 minutes into minutes, you first convert the hours to minutes and then add the extra minutes. This gives a total of ____ minutes.

Key: 270

Explanation: $4 \times 60 = 240$; $240 + 30 = 270$ minutes.

10. If you have 90 minutes, this is equivalent to ____ hours and ____ minutes.

Key: 1 hour, 30 minutes

Explanation: $90 \div 60 = 1 \text{ hour } 30 \text{ minutes}$.

Matching Type

11. Instructions: Match each time conversion problem to the correct answer.

Conversion Problems:

- Convert 6 hours and 25 minutes to minutes.
- Convert 150 minutes to hours and minutes.
- Convert 3.75 hours to minutes.
- Convert 90 minutes to hours and minutes.

Answers:

- 1 hour and 30 minutes
- 225 minutes
- 2 hours and 30 minutes
- 6 hours and 25 minutes is 385 minutes

Explanation: 8:20 - 50 minutes = 7:30 PM.

6. Convert 2 hours and 15 minutes to minutes.

a) 135 minutes

b) 120 minutes

c) 150 minutes

d) 145 minutes

Key: a

Explanation: $2 \times 60 = 120$; $120 + 15 = 135$ minutes.

ADVANCED LEVEL

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7. Which of the following correctly represent the time in minutes?

A) 1 hour and 45 minutes

B) 90 minutes

C) 2 hours and 30 minutes

D) 150 minutes

Key: A, B, C, D

Explanation: All are correct.

8. Convert the following durations to minutes:

A) 4 hours

B) 3 hours and 20 minutes

C) 5 hours and 15 minutes

D) 2 hours and 50 minutes

Key: A, B, C, D

Explanation: All are correct.

Fill In the Blanks

9. A train departs at 3:20 PM and arrives at 5:45 PM. The total travel time is _____ hours and _____ minutes.

Key: 2 hours, 25 minutes

Explanation: $5:45 - 3:20 = 2$ hours 25 minutes.

10. 2 hours and 10 minutes after 8:35 AM is _____ AM.

Key: 10:45 AM

Explanation: $8:35 + 2$ hours 10 minutes = 10:45 AM.

Matching Type

11. Instructions: Match each time calculation problem to the correct result.

Time Calculation Problems:

1. What time is 1 hour and 50 minutes after 8:25 PM?

2. What time is 35 minutes before 9:00 AM?

3. What time is 2 hours and 30 minutes before 11:45 AM?

4. What time is 1 hour and 15 minutes after 4:50 PM?

Results:

A. 8:25 AM

B. 10:15 PM

C. 6:05 PM

D. 9:15 AM

Key: 1.B,2.A,3.D,4.C

Answer the Following Questions

12. A workout session lasts 1 hour and 50 minutes. How many minutes does the session last?

Key: 110 minutes

Explanation: $1 \times 60 = 60$; $60 + 50 = 110$ minutes.

13. Channu came back from his walk and ate breakfast 2 hours later. If he ate breakfast at 8 in the morning, at what time did he come back from his walk?

Key: 6:00 AM

Explanation: 8:00 AM - 2 hours = 6:00 AM.

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