

Q2-Q3 (Time Change) Day 131 Name: _____

1. a) Each **half** of a playground game lasts **5 minutes**, there is a **15-minute break at half-time**. In the playground game the break at **half-time started at 12:00pm**. **At what time** did the game **end**? Give your answer using the **24-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 15:00**. **At what time** did the game **begin**? Give your answer using **12-hour clock**. Write your answer in the space below.

2. a) Each **half** of a playground game lasts **10 minutes**, there is an **8-minute break at half-time**. In the playground game the break at **half-time started at 15:00**. **At what time** did the game **end**? Give your answer using the **12-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 4:00pm**. **At what time** did the game **begin**? Give your answer using **24-hour clock**. Write your answer in the space below.

3. a) Each half of a playground game lasts **12 minutes**, there is a **10-minute break at half-time**. In the playground game the break at **half-time started at 2:00pm**. **At what time** did the game **end**? Give your answer using the **24-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 17:00**. **At what time** did the game **begin**? Give your answer using **12-hour clock**. Write your answer in the space below.

4. a) Each half of a playground game lasts **9 minutes**, there is a **6-minute break at half-time**. In the playground game the break at **half-time started at 11:07**. **At what time** did the game **end**? Give your answer using the **12-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 2:00pm**. **At what time** did the game **begin**? Give your answer using **24-hour clock**. Write your answer in the space below.

5. a) Each half of a playground game lasts **15 minutes**, there is a **10-minute break at half-time**. In the playground game the break at **half-time started at 4:40pm**. **At what time** did the game **end**? Give your answer using the **24-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 17:20**. **At what time** did the game **begin**? Give your answer using **12-hour clock**. Write your answer in the space below.

6. a) Each half of a playground game lasts **20 minutes**, there is a **20-minute break at half-time**. In the playground game the break at **half-time started at 09:30**. **At what time** did the game **end**? Give your answer using the **12-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 2:15pm**. **At what time** did the game **begin**? Give your answer using **24-hour clock**. Write your answer in the space below.

7. a) Each half of a playground game lasts **19 minutes**, there is a **5-minute break at half-time**. The playground game **started at 1:45pm**. **At what time** did the game **end**? Give your answer using the **24-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 18:35**. **At what time** did the game **begin**? Give your answer using **12-hour clock**. Write your answer in the space below.

8. a) Each half of a playground game lasts **23 minutes**, there is an **8-minute break at half-time**. In the playground game the break at **half-time ended at 10:43**. **At what time** did the game **end**? Give your answer using the **12-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 12:50pm**. **At what time** did the game **begin**? Give your answer using **24-hour clock**. Write your answer in the space below.

9. a) Each half of a playground game lasts **33 minutes**, there is a **9-minute break at half-time**. In the playground game the break at **half-time started at 16:04**. **At what time** did the game **end**? Give your answer using the **12-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 15:26**. **At what time** did the game **begin**? Give your answer using **12-hour clock**. Write your answer in the space below.

10. a) Each half of a playground game lasts **39 minutes**, there is a **17-minute break at half-time**. The playground game **started at 2:06pm**. **At what time** did the game **end**? Give your answer using the **24-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 4:19pm**. **At what time** did the game **begin**? Give your answer using **24-hour clock**. Write your answer in the space below.

11. a) Each half of a playground game lasts **41 minutes**, there is a **10-minute break at half-time**. In the playground game the break at **half-time ended at 15:29**. **At what time** did the game **end**? Give your answer using the **24-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 10:36**. **At what time** did the game **begin**? Give your answer using **12-hour clock**. Write your answer in the space below.

12. a) Each half of a playground game lasts **47 minutes**, there is a **12-minute break at half-time**. In the playground game the break at **half-time started at 09:42**. **At what time** did the game **end**? Give your answer using the **12-hour clock**. Write your answer in the space below.

b) The same playground game **ended at 1:49pm**. **At what time** did the game **begin**? Give your answer using **24-hour clock**. Write your answer in the space below.

Answers

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| 1. a) 12:20 | b) 2:35pm |
| 2. a) 3:18pm | b) 15:32 |
| 3. a) 14:22 | b) 4:26pm |
| 4. a) 11:22am | b) 13:36 |
| 5. a) 17:05 | b) 4:40pm |
| 6. a) 10:10am | b) 13:15 |
| 7. a) 14:28 | b) 5:52pm |
| 8. a) 11:06am | b) 11:56 |
| 9. a) 4:46pm | b) 2:11pm |
| 10.a) 15:41 | b) 14:44 |
| 11.a) 16:10 | b) 9:04am |
| 12.a) 10:41am | b) 12:03 |