

# AFRICA MATH CHALLENGE

## Time zone information to solve the problems:

Africa does not have daylight savings time like in the U.S. so the following information is accurate during the summer months.

\*AFRICA is 7 hours later than the Eastern Time Zone in the U.S.

\*AFRICA is 8 hours later than the Central Time Zone in the U.S.

\*AFRICA is 10 hours later than the Pacific Time Zone in the U.S.

\*Los Angeles, California is in the Pacific Time Zone.

\*Dallas, Texas is in the Central Time Zone.

\*Nashville, Tennessee is in the Central Time Zone.

\*Tampa, Florida is in the Eastern Time Zone.

HINT: It's helpful to calculate the arrival time in the time zone you departed from and then convert the answer to **AFRICA** time.

Max, Sam, Katie, and Carissa departed for Africa on June 25. They had a bet on who would get to Africa the fastest. Can you figure out who the winner was?

1. Max started his journey from Los Angeles, California. His flight left at 5:15 AM and flew to Detroit, Michigan. The flight to Detroit was five hours and twenty-five minutes. He had a short layover in the airport of one hour and twenty minutes. He then boarded a flight to Africa, which was twelve hours and fifteen minutes long. When did he arrive in Africa?

Date: \_\_\_\_\_ Time: \_\_\_\_\_ A.M. or P.M.

2. Sam boarded a flight in Nashville, Tennessee at 6:00 in the morning. His plane ride to New York was three hours and ten minutes. He then had a long layover in the airport of four hours and five minutes. He finally boarded a plane to Africa and traveled for thirteen hours and twenty-five minutes.

What time did he get to Africa?

Date: \_\_\_\_\_ Time: \_\_\_\_\_ A.M. or P.M.

3. Katie was scheduled to depart from Tampa, Florida at 5:00 in the morning. The plane had a mechanical and was delayed for one hour and five minutes. When the flight departed for Atlanta, it took one hour and twenty minutes to complete. Her layover in the airport was two hours and thirteen minutes. She then boarded a flight to New York, which took three hours and eighteen minutes. She had an airport layover of fifty-four minutes in New York. She then boarded a flight to Africa that took thirteen hours and twenty-five minutes. What time did she get to Africa?

Date: \_\_\_\_\_ Time: \_\_\_\_\_ A.M. or P.M.

4. Carissa boarded a flight in Dallas, Texas at 5:40 in the morning. Her flight to New York was scheduled for five hours and forty minutes. However, after flying for two hours and fifty-five minutes, the plane landed in Memphis, Tennessee due to a medical emergency. The plane was on the ground for one hour and two minutes. Once the plane was back in the air, the plane traveled for three hours and seven minutes to get to New York. Once in New York, the airport layover was forty-five minutes. The plane ride to Africa took thirteen hours and fifteen minutes. What time did she get to Africa?

Date: \_\_\_\_\_ Time: \_\_\_\_\_ A.M. or P.M.

The first one to get to **AFRICA** was \_\_\_\_\_!