

OLYMPIAD · MENTAL ABILITY · OLYMPIAD PREPARATION · DPP SHEET

Chapter 9: Clocks and Calendars

Daily practice problems: 10 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. Find the angle between the hands at 6:00.
2. Find the angle between the hands at 2:30.
3. Find the angle between the hands at 8:20.
4. How many times do the hands of a clock coincide in 24 hours?
5. At what time between 5 and 6 do the hands coincide?
6. Through what angle does the minute hand turn in 15 minutes? Through what angle does the hour hand turn in 1 hour?
7. Is 1900 a leap year? Is 2000 a leap year?
8. Today is Monday. What day will it be after 100 days?
9. 1 January 2022 was a Saturday. What day was 1 January 2023?
10. A month of 31 days begins on a Tuesday. How many Tuesdays does it have?

Answer Key

1. 180° .
2. 105° ($|60 - 165|$).
3. 130° ($|240 - 110|$).
4. 22.
5. $27\frac{3}{11}$ minutes past 5.
6. 90° and 30° .
7. 1900 is not a leap year. 2000 is a leap year.
8. Wednesday.
9. Sunday (2022 was an ordinary year, so one day forward).
10. 5.

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