WONDERLEARNERZ PRIMARY ACADEMY â€" OFFICIAL ANSWER KEY & MARKING SCHEME

Calendar and Dates: Worksheet 3 [ANSWER KEY]

Grade 5 | Mathematics | Ch 17: Calendar and Dates | Total Marks: 19 | Time: 45 Minutes

Q1. How many days are in a standard leap year? [1 Mark]

Correct Answer: 366 days

Explanation: A leap year contains 366 days because February has 29 days instead of 28.

Q2. Which of the following months has exactly 30 days? [1 Mark]

Correct Answer: April

Explanation: Thirty days have September, April, June, and November.

Q3. How many weeks and days are in 45 days? [1 Mark]

Correct Answer: 6 weeks and 3 days

Explanation: 45 / 7 = 6 weeks with a remainder of 3 days.

Q4. If May 1 falls on a Wednesday, what day of the week is May 8? [1 Mark]

Correct Answer: Wednesday

Explanation: Adding exactly 7 days (1 week) lands on the same day of the week: Wednesday.

Q5. At the Harbor Marine Terminal, an environmental research camp runs from July 8 to [1 Mark]
July 29 inclusive. For how many total days does the camp operate?

Correct Answer: 22 days

Explanation: Inclusive count = 29 - 8 + 1 = 22 days.

Q6. A science fair project takes exactly 5 weeks and 4 days to complete. How many [1 Mark]
total days did the project take?

Correct Answer: 39 days

Explanation: (5 x 7 = 35) + 4 = 39 days.

Q7. If today is Friday, October 12, what day of the week will it be 16 days from [1 Mark]
today?

Correct Answer: Sunday

Explanation: 16 / 7 = 2 weeks remainder 2 days. Friday + 2 days = Sunday.

Q8. Complete the calendar fact: The number of days in February during a non-leap year [1 Mark]
is [?].

Correct Answer: 28

Explanation: February has 28 days in common years.

Q9. Fill in the missing weeks: 84 days = [?] weeks. [1 Mark]

Correct Answer: 12

Explanation: 84 / 7 = 12 weeks.

Q10. Lucas claims: 'Every year that ends in two zeros is automatically a leap year, [1 Mark]
such as the year 1900.' Explain the leap year rule and Lucas's error.

Correct Answer: Century years must be divisible by 400 to be leap years; 1900 was not a leap year

Explanation: Century years ending in 00 must be divisible by 400. 1900 is not divisible by 400, so it was a common year.

Q11. A student calculates the number of days between March 10 and March 18 by doing 18 [1 Mark]
- 10 = 8 days, but states 'There are 8 days including both start and end dates.'
Correct the student.

Correct Answer: 9 days inclusive

Explanation: To count both endpoints inclusive, add 1: 18 - 10 + 1 = 9 days.

Q12. Explain why the calendar requires an extra leap day approximately every four years. **[2 Marks]**

Correct Answer: Earth orbits the Sun in roughly 365.2422 days (about 365 days and 6 hours). Adding one leap day every 4 years compensates for the accumulating 6 extra hours per year.

Explanation: The solar orbital period exceeds 365 days by nearly 1/4 day annually.

Q13. If January 1 of a non-leap year is a Monday, what day of the week will December 31 of that same year be? Explain your reasoning. **[2 Marks]**

Correct Answer: Monday. A non-leap year has 365 days = 52 weeks + 1 day. Because 364 days complete 52 full cycles ending on Sunday, the 365th day (Dec 31) is Monday.

Explanation: 365 modulo 7 = 1 day remainder, causing the final day to match the first day.

Q14. A baby was born on February 29, 2012. By February 29, 2032, how many actual calendar birthday anniversaries on February 29 will the child have celebrated? **[2 Marks]**

Correct Answer: 5 birthdays

Explanation: Leap years: 2016, 2020, 2024, 2028, and 2032 (5 leap birthdays).

Q15. A school term began on September 1 and ended on December 15. Knowing September has 30 days, October has 31, and November has 30, how many total days was the school term inclusive? **[2 Marks]**

Correct Answer: 106 days

Explanation: September: 30 days. October: 31 days. November: 30 days. December: 15 days.
Total = 30 + 31 + 30 + 15 = 106 days.