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

Place Value and Rounding Numbers: Worksheet 2 [ANSWER KEY]

Grade 5 | Mathematics | Ch 2: Place Value and Rounding Numbers | Total Marks: 19 | Time: 45 Minutes

Q1. Round 46,170 to the nearest 100. [1 Mark]

Correct Answer: 46,200

Explanation: Check the tens digit. Since it determines rounding, 46,170 rounds to 46,200.

Q2. Round 80,400 to the nearest 1,000. [1 Mark]

Correct Answer: 80,000

Explanation: Check the hundreds digit. If >= 5 round up: 80,000.

Q3. Which comparison statement is strictly true? [1 Mark]

Correct Answer: 64,820 > 64,280

Explanation: In the hundreds place, 800 > 200, so 64,820 > 64,280.

Q4. What is 89,950 rounded to the nearest 1,000? [1 Mark]

Correct Answer: 90,000

Explanation: Hundreds digit is 9 (>= 5), rounding 89,000 up to 90,000.

Q5. At the Science & Discovery Museum, an outdoor event registered 35,280 [1 Mark]
participants. For a press release, this count is rounded to the nearest 1,000. What number is reported?

Correct Answer: 35,000

Explanation: Check the hundreds digit to round to the nearest 1,000: 35,000.

Q6. A freight train carries three grain hoppers weighing 24,560 kg, 24,650 kg, and [1 Mark]
24,065 kg. List the weights in descending order (heaviest to lightest).

Correct Answer: 24,650 kg, 24,560 kg, 24,065 kg

Explanation: Compare hundreds digits: 650 > 560 > 065. Order: 24,650 kg > 24,560 kg > 24,065 kg.

Q7. A reforestation reserve planted 18,672 oak saplings. Round this total to the [1 Mark]
nearest 10.

Correct Answer: 18,670

Explanation: Examine the units digit to round to the nearest ten: 18,670.

Q8. What is the smallest 5-digit whole number that rounds to 45,000 when rounded to [1 Mark]
the nearest 1,000?

Correct Answer: 44,500

Explanation: Numbers from 44,500 to 45,499 round to 45,000. The smallest is 44,500.

Q9. What is the greatest 5-digit whole number that rounds to 60,000 when rounded to [1 Mark]
the nearest 1,000?

Correct Answer: 60,499

Explanation: Numbers up to 60,499 round down to 60,000. The greatest is 60,499.

Q10. Mia states: 'Rounding 52,489 to the nearest 100 gives 52,400 because 4 is less [1 Mark]
than 5.' What is Mia's mistake and what is the correct rounded value?

Correct Answer: 52,500

Explanation: Mia inspected the hundreds digit itself instead of the tens digit (8). Because 8 >= 5, it rounds up to 52,500.

Q11. Leo claims: 'When rounding 39,995 to the nearest 10, the answer is 39,990.' [1 Mark]
Identify the error and provide the correct result.

Correct Answer: 40,000

Explanation: The ones digit is 5, so round up. Adding 1 ten cascades across all nines to 40,000.

Q12. Why is rounding useful when estimating large financial sums in community budgeting? Give an example. **[2 Marks]**

Correct Answer: Rounding simplifies complex numbers to friendly multiples of 100 or 1,000, allowing fast mental checks to prevent calculation errors.

Explanation: Estimation provides quick sanity checks without long manual arithmetic.

Q13. Explain why 450 rounds up to 500 when rounding to the nearest 100, even though 50 is equidistant between 400 and 500. **[2 Marks]**

Correct Answer: By international mathematical convention, the halfway value (5 in the decisive place) rounds up to ensure consistency across computations.

Explanation: Halfway cases round up by standard mathematical convention.

Q14. A 5-digit number has 7 in the thousands place. Rounded to the nearest 100 it is 37,400, and rounded to the nearest 10 it is 37,390. If the sum of its digits is 26, find the number. **[2 Marks]**

Correct Answer: 37,394

Explanation: From 37,390, tens is 9. Sum so far: 3 + 7 + 3 + 9 = 22. To reach sum 26, ones must be 26 - 22 = 4. Number is 37,394.

Q15. How many whole numbers between 62,340 and 62,350 round to 62,350 when rounded to the nearest 10? **[2 Marks]**

Correct Answer: 6 numbers

Explanation: The numbers are 62,345, 62,346, 62,347, 62,348, 62,349, and 62,350 (6 numbers).