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

Addition and Subtraction - Worksheet 3 [ANSWER KEY]

Grade 4 | Mathematics | Ch 9: Addition and Subtraction | Total Marks: 19 | Time: 30 Minutes

Q1. Calculate: 4500 + 2275 = [1 Mark]

Correct Answer: 6775

Explanation: Add with regrouping: 4500 + 2275 = 6775.

Q2. Calculate: 4500 - 2275 = [1 Mark]

Correct Answer: 2225

Explanation: Subtract with regrouping: 4500 - 2275 = 2225.

Q3. Estimate 3,890 + 2,120 by rounding each number to the nearest hundred: [1 Mark]

Correct Answer: 6,000

Explanation: 3,890 rounds to 3,900. 2,120 rounds to 2,100. 3,900 + 2,100 = 6,000.

Q4. Evaluate: 4,000 - 1,250 = [1 Mark]

Correct Answer: 2,750

Explanation: 4,000 - 1,250 = 2,750.

Q5. At the City Botanical Seed Distribution, staff collected 4500 items in Week 1 and [1 Mark]
2275 items in Week 2. How many items were collected in total?

Correct Answer: 6775 items

Explanation: 4500 + 2275 = 6775 items.

Q6. A warehouse had 4500 boxes in stock. If 2275 boxes were dispatched for delivery, [1 Mark]
how many boxes remain in the warehouse?

Correct Answer: 2225 boxes

Explanation: 4500 - 2275 = 2225 boxes remain.

Q7. A school library has 4,500 books. Students borrow 1,820 fiction books and 940 [1 Mark]
science books. How many total books were borrowed?

Correct Answer: 2,760 books

Explanation: 1,820 + 940 = 2,760 books borrowed.

Q8. Find the missing addend: 4500 + [?] = 6775 [1 Mark]

Correct Answer: 2275

Explanation: Subtract known addend from sum: 6775 - 4500 = 2275.

Q9. Find the missing digit: 3,4[?]5 + 1,234 = 4,709 [1 Mark]

Correct Answer: 7

Explanation: Units: 5 + 4 = 9. Tens: [?] + 3 = 10 (0 with carry 1), so [?] = 7.

Q10. A student subtracts 62 - 28 and writes 46 because 8 - 2 = 6 and 6 - 2 = 4. What [1 Mark]
is the student's mistake?

Correct Answer: The student subtracted the top digit from the bottom digit (8 - 2) instead of borrowing 10 from the tens place (12 - 8 = 4)

Explanation: Always subtract bottom from top; when top is smaller, borrow from the tens column (12 - 8 = 4, 5 - 2 = 3 -> 34).

Q11. Maya solves 2,400 - 1,150 = 1,350 and checks her work by adding 1,350 + 2,400 = [1 Mark]
3,750. What is wrong with Maya's checking method?

Correct Answer: To check subtraction, add the DIFFERENCE to the SUBTRAHEND (1,350 + 1,150 = 2,400), not to the minuend

Explanation: Difference + Subtrahend = Minuend.

Q12. Why does subtracting 1 from both numbers in a problem like 5,000 - 2,347 (giving 4,999 - 2,346) produce the exact same correct answer without any borrowing? **[2 Marks]**

Correct Answer: Because shifting both numbers by the same amount preserves the exact difference between them, while 4,999 requires no borrowing across zeroes

Explanation: The difference between two values (a - b) remains identical if both values shift by the same constant: (a - 1) - (b - 1) = a - b.

Q13. If the sum of two numbers is 5,000 and one number is 2,750, how can you find the other number? **[2 Marks]**

Correct Answer: Subtract 2,750 from 5,000 (5,000 - 2,750 = 2,250)

Explanation: Subtraction is the inverse of addition: Sum - Known Addend = Unknown Addend.

Q14. A charity fundraiser aimed to collect $7,500. On Monday they raised $2,840, on Tuesday $1,950, and on Wednesday $1,630. How much more money is needed to reach the goal? **[2 Marks]**

Correct Answer: $1,080

Explanation: Total raised = 2,840 + 1,950 + 1,630 = 6,420. Remaining needed = 7,500 - 6,420 = $1,080.

Q15. The sum of two 4-digit numbers is 8,240. If one number is 1,500 greater than the other, what is the smaller number? **[2 Marks]**

Correct Answer: 3,370

Explanation: Subtract the difference first: 8,240 - 1,500 = 6,740. Divide equally between the two: 6,740 / 2 = 3,370.