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

# Addition and Subtraction - Worksheet 5 [ANSWER KEY]

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

**Q1. Calculate: 5200 + 2840 =** [1 Mark]

**Correct Answer: 8040**

*Explanation: Add with regrouping: 5200 + 2840 = 8040.*

**Q2. Calculate: 5200 - 2840 =** [1 Mark]

**Correct Answer: 2360**

*Explanation: Subtract with regrouping: 5200 - 2840 = 2360.*

**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 Wildlife Sanctuary Visitor Registry, staff collected 5200 items in Week 1** [1 Mark]
and 2840 items in Week 2. How many items were collected in total?

**Correct Answer: 8040 items**

*Explanation: 5200 + 2840 = 8040 items.*

**Q6. A warehouse had 5200 boxes in stock. If 2840 boxes were dispatched for delivery,** [1 Mark]
how many boxes remain in the warehouse?

**Correct Answer: 2360 boxes**

*Explanation: 5200 - 2840 = 2360 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: 5200 + [ ? ] = 8040** [1 Mark]

**Correct Answer: 2840**

*Explanation: Subtract known addend from sum: 8040 - 5200 = 2840.*

**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.*