Whole numbers and calculations - topic test

12 questions | 19 marks | 30 minutes

Short calculations lead into explanations and practical problems. Show your working.

Equivalent correct methods earn the corresponding marks.

1. What is the value of 6 in 16,204? [1 mark]

The 6 is in the thousands place.

Answer: 6,000.

2. Write 5,090 in expanded form. [1 mark]

There are 5 thousands, 0 hundreds, 9 tens and 0 ones.

Answer: 5,000 + 90.

3. Is 9,317 odd or even? Explain briefly. [1 mark]

An odd ones digit leaves one object unpaired.

Answer: Odd, because it ends in 7.

4. Round 2,746 to the nearest ten. [1 mark]

The ones digit is 6, so use the next ten.

Answer: 2,750.

5. Find 384 + 215. [1 mark]

384 + 200 = 584; add 15 to get 599.

Answer: 599.

6. Find the missing number: ? + 168 = 500. [1 mark]

500 − 168 = 332.

Check: 332 + 168 = 500.

Answer: 332.

7. Calculate 800 − 356. Show your steps. [2 marks]

800 − 300 = 500.

500 − 50 − 6 = 444.

Answer: 444.

8. Use compensation to find 572 + 199. [2 marks]

572 + 200 = 772.

Remove the extra 1: 771.

Answer: 771.

9. Find the missing number: 950 − ? = 468. Check your answer. [2 marks]

950 − 468 = 482.

950 − 482 = 468.

Answer: 482.

10. Without finding the full total, explain whether 3,425 + 6,181 is odd or even. [2 marks]

Both are odd because their ones digits are 5 and 1.

Two odd leftovers form a pair, so odd + odd is even.

Answer: Even.

11. A library has 648 picture books and 277 chapter books. Estimate the total by rounding each count to the nearest hundred, then calculate exactly. [2 marks]

648 rounds to 600; 277 rounds to 300: estimate 900.

648 + 277 = 925.

Answer: Estimate 900; exact total 925 books.

12. A school prints 900 tickets. It gives out 286 in the morning and 347 in the afternoon. How many remain? Use an addition check. [3 marks]

286 + 347 = 633 tickets given out.

900 − 633 = 267.

Check: 267 + 286 + 347 = 900.

Answer: 267 tickets.