Addition/subtraction strategies

6 questions | 10 marks

Equivalent correct methods earn the corresponding marks.

1. Calculate 458 + 236. [1 mark]

458 + 200 = 658.

658 + 30 + 6 = 694.

Answer: 694.

2. Calculate 703 − 268. [1 mark]

703 − 200 = 503.

503 − 60 − 8 = 435.

Answer: 435.

3. Use compensation to find 645 + 298. [2 marks]

645 + 300 = 945.

Subtract the extra 2: 943.

Answer: 943.

4. Use compensation to find 721 − 299. [2 marks]

721 − 300 = 421.

Add 1 back because one too many was removed: 422.

Answer: 422.

5. A library had 625 books. It received 178 more, then lent out 246. How many remained? [2 marks]

625 + 178 = 803.

803 − 246 = 557.

Answer: 557 books.

6. A learner finds 472 + 189 = 551. Show a correct method and use an estimate to explain why 551 is not sensible. [2 marks]

472 + 200 − 11 = 661.

Rounding to hundreds gives about 500 + 200 = 700, much closer to 661 than 551.

Answer: The correct answer is 661.