Test answers - Written addition and subtraction to 4 digits

Year: Year 4 · Duration: 40 minutes · /20

Answer to Question 1 (4 marks)

a. Ones: 5 + 6 = 11, write 1 and carry 1. Tens: 4 + 8 + 1 = 13, write 3 and carry 1. Hundreds: 7 + 3 + 1 = 11, write 1 and carry 1. Thousands: 2 + 1 + 1 = 4. Answer **4 131** (2 marks).
b. Ones: 8 + 7 = 15, write 5 and carry 1. Tens: 0 + 9 + 1 = 10, write 0 and carry 1. Hundreds: 9 + 0 + 1 = 10, write 0 and carry 1. Thousands: 4 + 3 + 1 = 8. Answer **8 005** (2 marks).

Answer to Question 2 (4 marks)

a. Ones: 2 is less than 8, so exchange: 12 − 8 = 4. Tens: 5 (after exchanging) − 3 = 2. Hundreds: 4 is less than 5, so exchange: 14 − 5 = 9. Thousands: 6 − 2 = 4. Answer **4 924** (2 marks).
b. 6 000 − 2 749 = **3 251** (1 mark).
c. 3 251 + 2 749 = 6 000 (1 mark).

Answer to Question 3 (4 marks)

a. 4 892 rounds to **4 900**, because its tens digit is 9. 3 207 rounds to **3 200**, because its tens digit is 0. Estimate: 4 900 + 3 200 = **8 100** (2 marks: 1 for rounding both numbers, 1 for 8 100).
b. Column method: ones 2 + 7 = 9; tens 9 + 0 = 9; hundreds 8 + 2 = 10, write 0 carry 1; thousands 4 + 3 + 1 = 8. Exact answer **8 099**. Mia is correct, and it is very close to the estimate of 8 100, so it is sensible (2 marks).

Answer to Question 4 (4 marks)

a. Column addition 2 468 + 1 975: ones 8 + 5 = 13, write 3 carry 1; tens 6 + 7 + 1 = 14, write 4 carry 1; hundreds 4 + 9 + 1 = 14, write 4 carry 1; thousands 2 + 1 + 1 = 4. Total **4 443** cars (2 marks).
b. Find the difference by counting on from 1 975: 25 to reach 2 000, then 468 to reach 2 468. 25 + 468 = **493** more cars on Saturday. Check: 1 975 + 493 = 2 468 (2 marks: 1 for the method, 1 for 493).

Answer to Question 5 (4 marks)

a. 4 859 − 2 275 = **2 584 items** (1 mark).
b. 3 146 + 4 859 + 2 584 = 8 005 + 2 584 = **10 589 items** (2 marks).
c. 12 000 − 10 589 = 1 411. It did **not** reach the target; it sold **1 411 fewer** items (1 mark).