Partitioning whole numbers

6 questions | 8 marks

Equivalent correct methods earn the corresponding marks.

1. Write 46,825 in standard expanded form. [1 mark]

Each part is the value of one non-zero digit.

Answer: 40,000 + 6,000 + 800 + 20 + 5

2. What number is 6 thousands + 12 hundreds + 3 tens + 4 ones? [1 mark]

6,000 + 1,200 + 30 + 4 = 7,234.

Answer: 7,234

3. Write 5,307 using hundreds, tens and ones. [1 mark]

5,300 is 53 hundreds; the remaining part is 7.

Answer: 53 hundreds + 0 tens + 7 ones

4. Complete: 7,615 = 75 hundreds + ___ tens + 5 ones. [1 mark]

7,615 − 7,500 − 5 = 110, which is 11 tens.

Answer: 11

5. Sam writes 4,008 = 400 + 8. Explain and correct the error. [2 marks]

400 + 8 is 408, not 4,008.

Answer: The 4 means 4,000, so 4,008 = 4,000 + 8.

6. Give two different partitions of 9,020. [2 marks]

Both sums equal 9,020. Other equivalent partitions are valid.

Answer: For example, 9,000 + 20 and 8,000 + 1,020.