Contextual remainders

6 questions | 12 marks

Equivalent correct methods earn the corresponding marks.

1. Divide 35 by 6. State the whole quotient and remainder. [1 mark]

$6 \times 5 = 30$ and $35 - 30 = 5$.

Answer: 5 remainder 5.

2. Forty-three apples are packed six to a bag. How many full bags can be made, and how many apples remain? [2 marks]

$6 \times 7 = 42$, leaving one.

Answer: 7 full bags, 1 apple left.

3. Fifty-three passengers need vans holding eight passengers each. How many vans are needed? [2 marks]

Eight times six is forty-eight, leaving five passengers.

A seventh van is needed.

Answer: 7 vans.

4. A 19-metre ribbon is cut into four equal pieces. What is the length of each piece? [2 marks]

Four complete metres for each piece use sixteen metres.

Share the remaining three metres equally among four pieces.

Answer: 4 and three-quarter metres.

5. A game needs teams of five. There are 37 players. How many complete teams can be made and how many people will not be in a complete team? [2 marks]

5 × 7 = 35, leaving two.

Answer: 7 teams, 2 players left.

6. A school has 41 students and buses with ten student seats. A learner says four buses are enough because 41 ÷ 10 gives four remainder one. Explain the mistake. [3 marks]

Four buses seat forty students only.

The one remaining student must also have a seat, so include a fifth bus.

Answer: Five buses are needed.