Division strategies

6 questions | 11 marks

Equivalent correct methods earn the corresponding marks.

1. Calculate 168 ÷ 4. [1 mark]

160 ÷ 4 = 40 and 8 ÷ 4 = 2.

Answer: 42.

2. Calculate 315 ÷ 5. [1 mark]

300 ÷ 5 = 60 and 15 ÷ 5 = 3.

Answer: 63.

3. Calculate 456 ÷ 6 using partial quotients. [2 marks]

420 ÷ 6 = 70 and 36 ÷ 6 = 6.

Answer: 76.

4. A library packs 288 books equally into eight boxes. How many books are in each box? [2 marks]

240 ÷ 8 = 30 and 48 ÷ 8 = 6.

There are thirty-six books per box.

Answer: 36 books.

5. Calculate 624 ÷ 12 using known multiples of twelve. [2 marks]

12 × 50 = 600, leaving twenty-four.

12 × 2 = 24, so the quotient is fifty-two.

Answer: 52.

6. Zoe says 294 ÷ 7 = 41. Use multiplication to check the claim and then correct it. [3 marks]

There are seven more in 294, so one more group of seven is needed.

42 × 7 = 294.

Answer: 41 × 7 = 287, not 294. The correct quotient is 42.