

Dividing Large Numbers

Chapter 4: We the Travellers–II · Topic 2

Key Concept

Long division breaks a division problem into steps: divide, multiply, subtract, and bring down the next digit, repeating until finished.

For example, dividing 456 by 4: 4 goes into 4 once (4), subtract to get 0, bring down 5, 4 goes into 5 once with remainder 1, bring down 6 to get 16, 4 goes into 16 four times, giving 114.

Long division might seem complex at first, but practising the steps in order - divide, multiply, subtract, bring down - makes it manageable.

Understanding division of large numbers helps us solve real problems, like splitting a large amount of money or resources fairly among many people.

Quick Revision Notes

- Long division has steps: divide, multiply, subtract, bring down.
- $456 \div 4 = 114$ using long division.
- We repeat the steps until the division is complete.
- Long division works for large numbers.
- Practice makes the steps manageable.
- Long division helps solve real fair-sharing problems.
- Each step must be done carefully and in order.
- Checking the answer by multiplying back helps verify it.

Practice Questions

- 1 Solve: $684 \div 4$ using long division.
- 2 Solve: $792 \div 6$.
- 3 Check your division answer by multiplying back.
- 4 Create your own large division problem.
- 5 Explain the four steps of long division in your own words.
- 6 Practice five large division problems.