Dividing 4–digit number by 1–digit

Understanding Notes

- Division is the process of sharing or splitting into equal parts

- A 4-digit number has four digits, like 1000, 2345, or 9876

- A 1-digit number ranges from 1 to 9

- In division, the number we divide is called the dividend

- The number we divide by is called the divisor

- The result of division is called the quotient

- Sometimes there is a number left over, which is called the remainder

- We divide each digit of the 4-digit number one by one using long division

- We can always check our answer using the formula:

  Dividend = Divisor × Quotient + Remainder

- Division is useful in solving real-life problems like sharing and grouping

Examples with Solutions

Example 1: 2484 ÷ 4

- ✓ **Step 1:** 4 goes into 24 six times

- ✓ **Step 2:** Bring down 8 → 8 ÷ 4 = 2

- ✓ **Step 3:** Bring down 4 → 4 ÷ 4 = 1

  Answer: 2484 ÷ 4 = 621

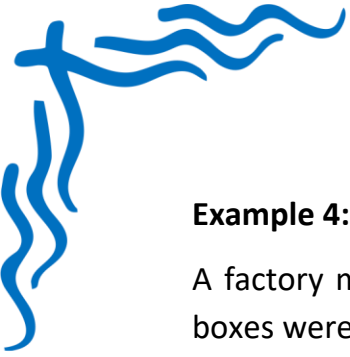**Example 2: 5340 ÷ 5**

- ✓ **Step 1:** 5 into 5 = 1

- ✓ **Step 2:** 3 ÷ 5 = 0, carry 3 to next digit

- ✓ Now 34 ÷ 5 = 6, remainder 4

- ✓ Bring down 0 → 40 ÷ 5 = 8

  Answer: 5340 ÷ 5 = 1068

Example 3: Fill in the blank

- ✓ __ ÷ 6 = 1376

- ✓ Multiply 1376 × 6 = 8256   **Answer:** 8256 ÷ 6 = 1376

Example 4: Word Problem

A factory made 9280 toys. These toys were packed in boxes of 8 each. How many boxes were used

- ✓ Divide 9280 ÷ 8 = 1160

Answer: 1160 boxes were used

Example 5: Check with multiplication

- ✓ Divide 4312 ÷ 4 = 1078
- ✓ Check: 1078 × 4 = 4312

Answer is correct

Summary Point

- Dividing a 4-digit number by a 1-digit number means breaking a big number into equal smaller parts
- Use long division method step by step
- You may get a remainder in some cases
- Always check your answer using multiplication
- Practice helps in solving faster and understanding division better