Dividing 3–digit number by 1–digit

Understanding Notes

- Division means sharing or splitting a number into equal parts
- A 3-digit number is any number between 100 and 999
- A 1-digit number is any number from 1 to 9
- When we divide a 3-digit number by a 1-digit number, we find how many equal groups we can make
- The number being divided is called the dividend
- The number we divide by is called the divisor
- The answer we get is called the quotient
- Sometimes we may have a remainder if the number does not divide exactly
- We can use long division or repeated subtraction to solve these problems
- Always check your answer by multiplying quotient × divisor and adding remainder (if any)

Examples with Solutions

Example 1: 324 ÷ 3

✓ Step 1: 3 ÷ 3 = 1

✓ Step 2: 2 ÷ 3 = 0 (carry 2 and move to next digit)

✓ Now 24 ÷ 3 = 8

Answer: 324 ÷ 3 = 108

Example 2: 756 ÷ 6

✓ Step 1: 7 ÷ 6 = 1, remainder 1

✓ Now 15 ÷ 6 = 2, remainder 3

✓ Now 36 ÷ 6 = 6

Answer: 756 ÷ 6 = 126

Example 3: Fill in the blank

✓ __ ÷ 4 = 225

✓ Multiply to check

✓ 225 × 4 = 900

Answer: 900 ÷ 4 = 225

Example 4: Word Problem

A shopkeeper has 648 candies. He wants to pack them in boxes of 6. How many boxes can he make

✓ Divide 648 ÷ 6 = 108

Answer: He can make 108 boxes

Example 5: Check with multiplication

✓ Divide 812 ÷ 4 = 203

✓ Now check: 203 × 4 = 812

So the answer is correct

Summary Point

- Dividing a 3-digit number by a 1-digit number means making equal groups.
- Use long division to solve it step-by-step.
- Sometimes you may get a remainder.
- Always check your answer using multiplication.
- Division is used in real life for equal sharing and grouping.