



## 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  $\times$  divisor and adding remainder (if any)

### Examples with Solutions

#### Example 1: $324 \div 3$

- ✓ Step 1:  $3 \div 3 = 1$
- ✓ Step 2:  $2 \div 3 = 0$  (carry 2 and move to next digit)
- ✓ Now  $24 \div 3 = 8$

**Answer:**  $324 \div 3 = 108$

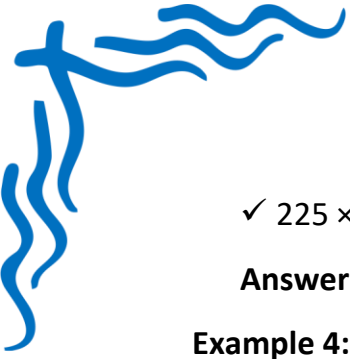
#### Example 2: $756 \div 6$

- ✓ Step 1:  $7 \div 6 = 1$ , remainder 1
- ✓ Now  $15 \div 6 = 2$ , remainder 3
- ✓ Now  $36 \div 6 = 6$

**Answer:**  $756 \div 6 = 126$

#### Example 3: Fill in the blank

- ✓  $\underline{\quad} \div 4 = 225$
- ✓ Multiply to check



✓  $225 \times 4 = 900$

**Answer:**  $900 \div 4 = 225$

#### **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  $648 \div 6 = 108$

**Answer:** He can make 108 boxes

#### **Example 5: Check with multiplication**

✓ Divide  $812 \div 4 = 203$

✓ Now check:  $203 \times 4 = 812$

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.