Checking Multiples by Division

Understanding Checking Multiples by Division

- We can check if a number is a multiple of another number using division.
- If a number divides exactly with no remainder, then it is a multiple.
- If there is a remainder, then the number is not a multiple.
- This method is useful for large numbers or quick checking.

How to Check

- Divide the number by the smaller number
- If the remainder is 0, it is a multiple
- If the remainder is not 0, it is not a multiple

Examples with Solutions

Example: Is 24 a multiple of 6?

Solution: 24 ÷ 6 = 4 (no remainder)

Yes, 24 is a multiple of 6

Example: Is 35 a multiple of 5?

Solution: 35 ÷ 5 = 7 (no remainder)

Yes, 35 is a multiple of 5

Example: Is 19 a multiple of 4?

Solution: 19 ÷ 4 = 4 remainder 3

No, 19 is not a multiple of 4

Example: Is 45 a multiple of 9?

Solution: 45 ÷ 9 = 5 (no remainder)

Yes, 45 is a multiple of 9

Example: Is 27 a multiple of 8?

Solution: 27 ÷ 8 = 3 remainder 3

No, 27 is not a multiple of 8

Summary Points

- To check if a number is a multiple, divide it by the given number.
- If remainder is 0, it is a multiple.
- If remainder is not 0, it is not a multiple.
- This method works well for both small and big numbers.
- Division helps us find multiples quickly and correctly.