



Properties of Division

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Division means sharing or grouping equally. It follows some simple rules called properties. These properties help us to understand and solve division better.

Main Properties of Division

Property 1: Dividing a number by 1

Any number divided by 1 is the number itself

Example: $6 \div 1 = 6$

Property 2: Dividing a number by itself

Any number divided by itself is 1

Example: $4 \div 4 = 1$

Property 3: 0 divided by any number

0 divided by any number is always 0

Example: $0 \div 3 = 0$

Property 4: A number divided by 0 is not allowed

We cannot divide by 0

Example: $5 \div 0$ is not possible

Examples with Solutions

i. $9 \div 1 = ?$

Answer: 9 (Dividing by 1 gives the same number)

ii. **Q:** $5 \div 5 = ?$

Answer: 1 (Dividing a number by itself gives 1)

iii. $0 \div 6 = ?$

Answer: 0 (Zero divided by any number is zero)

iv. $8 \div 0 = ?$

Answer: Not allowed (We cannot divide by 0)



v. $7 \div 1 = ?$

Answer: 7 (Dividing by 1 gives the same number)

Summary Points

- Dividing by 1 gives the same number
 - Dividing a number by itself gives 1
 - 0 divided by any number is 0
 - Division by 0 is not possible
 - These rules make division easy and safe to do
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