MULTIPLICATION

Properties of Multiplication

Q1)- Multiplication is _____

Q2)- If you multiply any number by zero, what will be the result ? Provide an example.

Q3)- What is the associative property of multiplication? Show with numbers 2, 3, and 4.

Q4)- Explain the commutative property of multiplication with an example.

Q5)- What is the distributive property of multiplication over addition? Show with numbers 5, 3, and 2.

Multiples

Q6)- List the first five multiples of 6.

Q7)- What is the least common multiple (LCM) of 8 and 12?

Q8)- Are 20 and 25 multiples of 5? Explain.

Q9)- Which number is a multiple of both 3 and 4: 12, 15, or 18?

Q10)- Find the first three multiples of 7 greater than 20.

Multiplying by 10, 100, and 1000

Q11)- What is 7 multiplied by 10?

Q12)- Calculate 45 times 100.

Q13)- Multiply 123 by 1000.

Q14)- What is 250 multiplied by 1000?

Q15)- Find the product of 9 and 10.

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MULTIPLICATION
ANSWERS

Properties of Multiplication

A1)- Multiplication is **repeated addition.**

A2)- Any number multiplied by zero is 0. Example: $5 \times 0 = 0$

A3)- Associative property: $(2 \times 3) \times 4 = 2 \times (3 \times 4) = 24$

A4)- Commutative property: $3 \times 4 = 4 \times 3 = 12$

A5)- Distributive property: $5 \times (3 + 2) = (5 \times 3) + (5 \times 2) = 15 + 10 = 25$

Multiples

A6)- 6, 12, 18, 24, 30

A7)- The LCM of 8 and 12 is 24.

A8)- Yes, both 20 and 25 are multiples of 5. $20 = 5 \times 4$, $25 = 5 \times 5$

A9)- 12 is a multiple of both 3 and 4

A10)- 21, 28, 35

Multiplying by 10, 100, and 1000

A11)- $7 \times 10 = 70$

A12)- $45 \times 100 = 4500$

A13)- $123 \times 1000 = 123,000$

A14)- $250 \times 1000 = 250,000$

A15)- $9 \times 10 = 90$

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