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The final statement is called…….

- ▶ hypothesis
- ▶ assumption
- ▶ conclusion
- ▶ valid statement

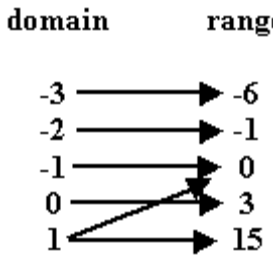
Initial value = 120

Final value = 200

Increase = 80

% Change =

- ▶ **66.67%**
- ▶ 40%
- ▶ 22.5%
- ▶ 30%



The above relation shows _____.

- ▶ not a function
- ▶ one to one function
- ▶ **onto function**
- ▶ many to one function

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The nth term of an A. P (Arithmetic Progression) is:

- a + (n - 1) d
- a - (n - 1) d
- a - (n - 1) d
- **a + (n + 1) d**

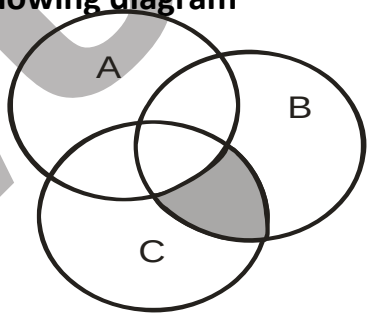
The nth term of an G. P (Geometric Progression) is:

- **ar^{n-1}**
- ar^{n+1}
- ra^{n-1}
- ra^{n+1}

From the truth table, *for $p \leftrightarrow q$ to be true, if both p and q must have the same truth values.*

- True
- **False**

Consider the following diagram



Then the shaded region is

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- A□□ B □ C
- (A□□ B) – C
- **(B□□ C) – A**
- (A□□ C) – B

For sets A and B, if A $\subseteq$ B , then

- $A^c \cap B = A$
- $A \cup B = A$
- $A \cap B = A$

If A = {1, 2, 3, 4} then A is proper subset of A.

- True
- False

{x}□ {x}

- True
- False

If P and Q are proposition, P is true and Q is false, then P $\rightarrow$ Q is

- True
- False

A □ B is a ---------of A.

- super set
- subset
- complement set

In ordered pairs order of elements matters.

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- True
- Flase

Let $a_1,a_2,a_3,\ldots,a_n$ be an arithmetic sequence, then sum of the sequence S_n =

$$\frac{n(a_1+a_n)}{2}$$

- True
- False

If p is a proposition then its negation is denoted by

- ?p
- ?p
- ?p
- p?

Conjunction of two statements p and q is denoted by

- p?q
- p?q
- p?q
- p ? q

Let A = {1, 2, 3} and B = {{1,2}, 3} then A ? B = {1, 2, 3}

- True
- False

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Percentage change =

- (Change / initial value) x 100
- (Change / final value) x 100
- (initial value / Change) x 100
- (final value / Change) x 100

Initial value = 1200

Final value = 1500

increase= 300

% Change =

- 30%
- 20%
- 100%
- 25%

Which of them is a statement?

- x+2 is positive
- Logic is interesting
- x+y=2
- May I come in?

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Question No: 1 (Marks: 2)

A relation R on the set of Natural numbers N is defined as:

For all $a, b \in N$, a**R**b iff $a \times b$ is odd. Is R reflexive?

Question No: 2 (Marks: 2)

What percent of 36 is 5?

Question No: 3 (Marks: 3)

Let $f : \square \rightarrow \square$ be defined by $f(x) = 2x - 3$ Show that f is an onto function.

Question No: 4 (Marks: 3)

Name the quadrant in which these points is located.

1. (5, 2)
2. (-3, -1)
3. (-2, 3)
4. (6, 0)
5. (0, -2)
6. (4, -3)

Question No: 5 (Marks: 5)

Let A= {a, b, c} and R is a relation defined on A such that

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R = {(a, b), (b, a), (a, a)}

Is R reflexive and symmetric? Justify your answer.

Question No: 6 (Marks: 5)

Find the sum of first five terms of following geometric series:

1 + 4 + 16 + ……

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