

Question # 4 of 10 (start time: 01:58:32 PM, 07 July 2023)

Total Marks: 1

Let $S(A)$ denote the collection of all initial segments of elements in a well-ordered set A , and let $S(A)$ be ordered by set inclusion. Then A is similar to $S(A)$ and, in particular, the function $f: A \rightarrow S(A)$ defined by $f(x) = s(x)$ is a similarity mapping between A and $S(A)$.

Select the correct option

 Reload Math Equations

☐	Given statement is false.
☒	Given statement is true.

In which year the advertisers of Colgate toothpaste took the conflict directly to consumers, giving them the opportunity to decide?

Select the correct option

☐	1909
☐	1906
☐	1905
☒	1910

Let S be a partially ordered set, and let A be a subset of S . An element m in S is called an upper bound of A if m succeeds every element of A , that is, for every $x \in A$, we have $x \leq m$.

Select the correct option

 Reload Math Equations☐ Given statement is false.☒ Given statement is true.

The ordinal number of set $\{1,2,3\}$ is _____

Select the correct option

 Reload Math Equations

☐	1
☐	None of these.
☒	3
☐	2

Click to Save Answer & Move to Next Question

The set of positive integers $P = \{1, 2, 3, \dots\}$ is not order-isomorphic to the set of even positive integers $E = \{2, 4, 6, \dots\}$.

Select the correct option

 Reload Math Equations

True



False



Click to Save Answer & Move to Next Question

Question # 2 of 10 (start time: 01:57:34 PM, 07 July 2023)

Total Marks: 1

Consider the usual orderings of the positive integers $P = \{1, 2, 3, \dots\}$ and the negative integers $A = \{-1, -2, -3, \dots\}$. Then P is not order-isomorphic to A .

Select the correct option

 Reload Math Equations

True



False



Question # 6 of 10 (Start time: 09:30:29 PM, 06 July 2023)

Photographs started appearing in newspapers in:

Select the correct option



1881



1897

The ordinal number of set $\{1,2,3\}$ is _____

Select the correct option

 Reload Math Equations

☐	1
☐	None of these.
☒	3
☐	2

Click to Save Answer & Move to Next Question

The set of positive integers $P = \{1, 2, 3, \dots\}$ is not order-isomorphic to the set of even positive integers $E = \{2, 4, 6, \dots\}$.

Select the correct option

 Reload Math Equations

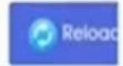
☐	True
☒	False

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 10 (start time: 01:56:47 PM, 07 July 2023)

Let A be an ordered set. Then A is said to be well-ordered if every subset of A contains a first element.

Select the correct option



Given statement is true.



Given statement is false.



Suppose A and B are well-ordered sets, and suppose A is similar to an initial segment of B. Then A is said to be _____ than B.

Select the correct option

 Reload Math Equations

☐	shorter
☒	longer

Let λ and μ be ordinal numbers and let A and B be two well-ordered sets such that $\lambda = \text{ord}(A)$ and $\mu = \text{ord}(B)$. Then

$$\lambda < \mu$$

if A is similar to an initial segment of B .

Select the correct option

 Reload Math Equations

true

☐

false

☒

Click to Save Answer & Move to Next Question

Let A be a well-ordered set. The initial segment $s(a)$ of an element $a \in A$ consists of all elements in A which strictly precedes a .

Select the correct option

 Reload Math Equations

Given statement is true.



Given statement is false.



Click to Save Answer & Move to Next Question

The ordinal number of $\{1,2,3,4\}$ is _____

Select the correct option

 Reload Math Equations

☐	2
☒	4
☐	3