QUIZ 1 KEY

QUIZ 1

Consider the following four statements:

> Can I say that 7×3+1=15?
> 7×3+1=15 might be true; I'm not sure.
> It is true to say that it is false to say that 7×3+1=15.
> Consider a real number z.

How many of these statements can you safely write?

A. 0
B. 1
C. 2
D. 3
E. 4

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Consider the following four statements:

(a) If 5 is even then 6 is even.
(b) If 5 is even then 6 is odd.
(c) If 5 is odd then 6 is even.
(d) If 5 is odd then 6 is odd.

Which one of these statements is false?

A. (a)
B. (b)
C. (c)
D. (d)

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QUIZ 1

Consider the following four statements:

(a) Let i be an integer.
(b) Let t be an integer.
(c) Let x be an integer.
(d) Let β be an integer.

Which one would you say is the most appropriate?

A. (a)
B. (b)
C. (c)
D. (d)

QUIZ 1

Consider the following three statements:

(a) Consider two integers i and j. Assume i≠j.
(b) Consider two integers i and j. We have i≠j.
(c) Consider two integers i and j. We may have i≠j.

How many of these statements can you safely write?

A. 0
B. 1
C. 2
D. 3

QUIZ 1

Mary wrote:	John wrote:
Consider an integer n: 7n+1=15 n=2	Consider an integer n: if 7n+1=15 then n=2
Anna wrote: There is an integer n such that: 7n+1=15	
Steve wrote: For all integers n, we have: 7n+1≠15	

How many of the four students above have it right?

A. 0   **B.** 1   **C.** 2   **D.** 3   **E.** 4

QUIZ 1

Consider the sets U={0,1} and V={0,1,2} and the statements:

       U is a subset of V.
       U is an element of V.
       U belongs to V.
       V includes U.
       V contains U.

How many of these five statements are correct?

A. 1

B. 2

C. 3

D. 4

E. 5

QUIZ 1

Consider the following three statements:

      0..0 = (0,0)
      0..0 = {0,0}
      0..0 = [0,0]

How many of these statements are correct?

A. 0

B. 1

C. 2

D. 3

QUIZ 1

Consider the following three statements:

$$-\infty..+\infty = \mathbb{R}$$
$$1.. +\infty = \mathbb{N}$$
$$1..2 = 2..1$$

How many of these statements are correct?

A. 0

B. 1

C. 2

D. 3

QUIZ 1

Consider the following four statements:

$$[-\infty,0[= \mathbb{R}^-$$
$$[4,4]=\{4\}$$
$$[4,4[=\varnothing$$
$$]4,5[=\{\}$$

How many of these statements are correct?

A. 0

B. 1

C. 2

D. 3

E. 4

QUIZ 1

Consider the following four statements:

1 is the first term of the tuple.
1 is the first element of the tuple.
1 is the first term of the set.
1 is the first element of the set.

How many of these statements may be correct?

A. 0
B. 1
C. 2
D. 3
E. 4

QUIZ 1

Let A be a nonempty set. Consider the following three statements:

$\{\} \times A = A$
$A \times A = A^2$
$(A \times A) \times A = A^3$

How many of these statements are correct?

A. 0
B. 1
C. 2
D. 3