

MATH 016 QUIZ 1 Questions

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[Run: 07/24/2020 at 15:18 Seed: 6477. Order of Checkable Items: List.]

Qz 1-1. Which of the following are TRUE *sentence(s)*, if any, of ARITHMETIC:

- M: $12 + 3 = 17$
- N: $12 = 13$
- P: $51 + 2$
- Q: $22 < 13$
- R: $21 = 21$

Qz 1-2. Given the real-world situation:

- The entities are two persons: *Arlo* and *Bria*.
- The relationship is *is a brother of* as determined by the following table:

<i>is a brother of</i> ↑	<i>Arlo</i>	<i>Bria</i>
<i>Arlo</i>	<i>yes</i>	<i>yes</i>
<i>Bria</i>	<i>no</i>	<i>no</i>

The symbolic-system is:

- The *vocabulary* consists of the following symbols:
 - Noun-symbols: *a* to represent *Arlo*, *b* to represent *Bria*.
 - Verb-symbol: *B* to represent *is a brother of*,
- The *grammar* says that the noun-symbols should be on either sides of the verb-symbol—just as in English.

Which of the following are TRUE (*sentences* about the real-world situation):

- M: aBa
- N: aBb
- P: bBa
- Q: bBb