

MATH 016 HOMEWORK 1 NAME: _____

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[Run: 07/24/2020 at 16:2 Seed: 6477. Order of Checkable Items: List.]

Response Grid (Check the appropriate boxes thus:)

Question	a	b	c	d	e
1					
2					
3					
4					
5					
6					
7					
8					

After having read this chapter *pencil in hand* and done this HOMEWORK

i. What would you say the idea of this chapter is:

ii. What question(s) do you have about this chapter:

Hw 1-1. Which of the following are *nouns* of ARITHMETIC:

M: $<$
N: $=$
P: 5
Q: -17.56
R: \div

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. M, N b. P, Q c. All d. None
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

Hw 1-2. Which of the following are *verbs* of ARITHMETIC:

M: $<$
N: $=$
P: 5
Q: -17.56
R: \div

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. M, N b. P, Q c. All d. None
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

Hw 1-3. Which of the following are *sentences* of ARITHMETIC:

M: $2 + 3$

N: $2 = 3$

P: 5

Q: $2 < 3$

R: $2 = 2$

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

a. N, Q, R

b. M, N, Q, R

c. Q, R

d. None

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

Hw 1-4. Which of the following are *TRUE sentences* of ARITHMETIC:

M: $2 + 3$

N: $2 = 3$

P: 5

Q: $2 < 3$

R: $2 = 2$

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. N, Q, R b. M, N, Q, R c. Q, R d. None
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

Hw 1-5. Which of the following are FALSE *sentences* of ARITHMETIC:

- M: $2 + 3$
N: $2 = 3$
P: 5
Q: $2 < 3$
R: $2 = 2$

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. N, Q, R b. M, N, Q, R c. Q, R d. None
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

Hw 1-6. Given the real-world situation:

- The entities are three persons: *Anna*, *Beth* and *Cathy*.
- The relationship is *is a friend of* as determined by the following table:

<i>is a friend of</i> ↑	<i>Anna</i>	<i>Beth</i>	<i>Cathy</i>
<i>Anna</i>	<i>yes</i>	<i>no</i>	<i>no</i>
<i>Beth</i>	<i>yes</i>	<i>yes</i>	<i>no</i>
<i>Cathy</i>	<i>yes</i>	<i>no</i>	<i>no</i>

The symbolic-system is:

- The *vocabulary* consists of the following symbols:

- Noun-symbols: a to represent *Anna*, b to represent *Beth*, c to represent *Cathy*.
- Verb-symbol: F to represent *is a friend 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 *sentences* (in that language):

- M: aFb
 N: $a = a$
 P: aFc
 Q: aFd
 R: Fab

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. N, Q, R b. M, P, Q c. M, P d. None
 e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

HW 1-7. Given the real-world situation:

- The entities are three persons: *Anna*, *Beth* and *Cathy*.
- The relationship is *is a friend of* as determined by the following table:

<i>is a friend of</i> ↑	<i>Anna</i>	<i>Beth</i>	<i>Cathy</i>
<i>Anna</i>	<i>no</i>	<i>yes</i>	<i>no</i>
<i>Beth</i>	<i>yes</i>	<i>yes</i>	<i>no</i>
<i>Cathy</i>	<i>yes</i>	<i>yes</i>	<i>yes</i>

The symbolic-system is:

- The *vocabulary* consists of the following symbols:
 - Noun-symbols: a to represent *Anna*, b to represent *Beth*, c to represent *Cathy*.

- Verb-symbol: F to represent *is a friend 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 FALSE (*sentences* about the real-world situation):

- M: aFa
 N: aFc
 P: cFb
 Q: cFa
 R: bFc

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. M, N, Q, R b. M, N, R c. M d. R
 e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

Hw 1-8. Given the real-world situation:

- The entities are three persons: *Anna*, *Beth* and *Cathy*.
- The relationship is *is a friend of* as determined by the following table:

<i>is a friend of</i> ↑	<i>Anna</i>	<i>Beth</i>	<i>Cathy</i>
<i>Anna</i>	<i>no</i>	<i>yes</i>	<i>yes</i>
<i>Beth</i>	<i>no</i>	<i>no</i>	<i>no</i>
<i>Cathy</i>	<i>yes</i>	<i>no</i>	<i>yes</i>

The symbolic-system is:

- The *vocabulary* consists of the following symbols:
 - Noun-symbols: a to represent *Anna*, b to represent *Beth*, c to represent *Cathy*.

- Verb-symbol: F to represent *is a friend 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: aFa
- N: aFc
- P: cFb
- Q: cFa
- R: cFc

Your Work:

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. Q, R
- b. N, Q, R
- c. N
- d. R
- e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

MATH 016 HOMEWORK 1 Answers

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Answer Key:

Question	a	b	c	d	e	Item
1						../QuestionsBase/1/-1-h
2						../QuestionsBase/1/-2-h
3						../QuestionsBase/1/-3-h
4						../QuestionsBase/1/-4-h
5						../QuestionsBase/1/-5-h
6						../QuestionsBase/1/-6-h
7						../QuestionsBase/1/-7-h
8						../QuestionsBase/1/-8-h