

**Worksheet Exercise 2.2.A.**

Symbolizing Arguments

Name \_\_\_\_\_

Class \_\_\_\_\_ Date \_\_\_\_\_

**Part A.** Analyze each of the following arguments in two stages. (1) First, use the suggested capital letters to abbreviate the simple sentences of the argument. This results in a partial symbolization consisting of capital letters connected by English operator expressions. (2) Next, finish symbolizing the arguments by replacing the English operator expressions by the symbolic connectives. Write the two results side by side for comparison. (3) Optional: In your opinion, is the argument valid or invalid?

English argument	partial	complete
1. Either this painting is by Rembrandt or it is by VerMeer. It isn't by Rembrandt. So, it must be by VerMeer. (R, M) Argument is: <u>valid</u>	<u>either R or M</u> <u>not R</u> <u>So, M</u>	<u>R V M</u> <u>~R</u> <u>∴ M</u>
2. Coffee and tea both contain the drug caffeine. So, tea contains the drug caffeine. (C, T) Argument is: _____	_____	_____
3. If the premium was paid, then the insurance is in force. But the premium was not paid. So, the insurance is not in force. (P, I) Argument is: _____	_____	_____
4. If people can live on Venus, then they can live on Mars. If they can live on Mars, then they can live on Jupiter. Therefore, if people can live on Venus, then they can live on Jupiter. (V, M, J) Argument is: _____	_____	_____
5. The house will be sold by August, or it won't be sold this year. It won't be sold by August. So, it won't be sold this year. (A, Y) Argument is: _____	_____	_____
6. If George is not late for the meeting, then he will introduce the speaker. But, George was late for the meeting. So, he did not introduce the speaker. (L, I) Argument is: _____	_____	_____
7. Rotterdam is in Holland or in Europe. Rotterdam is in Holland. So, Rotterdam is not in Europe. (H, E) Argument is: _____	_____	_____
8. The dog won't bark, if the child won't scare it. The child won't scare it. So, the dog won't bark. (D, C) Argument is: _____	_____	_____

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Ex. 2. 2. A.

Name \_\_\_\_\_ / \_\_\_\_\_

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9. If it rains, then the streets are wet. If it freezes, then the streets are slippery. It is raining or freezing. So, the streets are wet or slippery. (R, W, F, S) Argument is: \_\_\_\_\_

_____	_____
_____	_____
_____	_____
_____	_____

10. If it rains and freezes, then the streets are wet and slippery. It is raining or freezing. So, the streets are wet or slippery. (R, F, W, S) Argument is: \_\_\_\_\_

_____	_____
_____	_____
_____	_____