# Valid or Invalid? (Part 1)

Answer the following questions. In order to receive credit, you must fill out the truth tables correctly, and then you must circle the correct answer: valid or invalid.
There is no partial credit for these questions!

1. Consider the argument "P∨~P. Therefore, Q." Is the argument valid or invalid? Use the table below to help answer the question. If the argument is invalid, circle (or highlight) the row that demonstrates the argument's invalidity. Otherwise, do not circle (or highlight) anything in the table below.

| P | Q | ~P | P∨~P | ∴Q |
|---|---|----|------|-----|
| T | T |    |      |     |
| F | F |    |      |     |
| T | F |    |      |     |
| F | T |    |      |     |

VALID OR INVALID?

2. Consider the argument "P∧~P. Therefore, Q." Is the argument valid or invalid? Use the table below to help answer the question. If the argument is invalid, circle (or highlight) the row that demonstrates the argument's invalidity. Otherwise, do not circle (or highlight) anything in the table below.

| P | Q | ~P | P∧~P | ∴Q |
|---|---|----|------|-----|
| T | T |    |      |     |
| F | F |    |      |     |
| T | F |    |      |     |
| F | T |    |      |     |

VALID OR INVALID?

3.  Consider the argument "P∧~P. Therefore, P." Is the argument valid or invalid? Use the table below to help answer the question. If the argument is invalid, circle (or highlight) the row that demonstrates the argument's invalidity. Otherwise, do not circle (or highlight) anything in the table below.

| P | ~P | P∧~P | ∴P |
|---|----|------|-----|
| T |    |      |     |
| F |    |      |     |

VALID OR INVALID?

4.  Consider the argument "P∨~P. Therefore, P." Is the argument valid or invalid? Use the table below to help answer the question. If the argument is invalid, circle (or highlight) the row that demonstrates the argument's invalidity. Otherwise, do not circle (or highlight) anything in the table below.

| P | ~P | P∨~P | ∴P |
|---|----|------|-----|
| T |    |      |     |
| F |    |      |     |

VALID OR INVALID?

5.  Consider the argument "P. Therefore, P∨~P." Is the argument valid or invalid? Use the table below to help answer the question. If the argument is invalid, circle (or highlight) the row that demonstrates the argument's invalidity. Otherwise, do not circle (or highlight) anything in the table below.

| P | ~P | P | ∴P∨~P |
|---|----|----|-------|
| T |    |    |       |
| F |    |    |       |

VALID OR INVALID?

6. Consider the argument "P. Therefore, P∧~P." Is the argument valid or invalid? Use the table below to help answer the question. If the argument is invalid, circle (or highlight) the row that demonstrates the argument's invalidity. Otherwise, do not circle (or highlight) anything in the table below.

| P | ~P | P | ∴P∧~P |
|---|---|---|---|
| T | | | |
| F | | | |

VALID OR INVALID?