## Determining Relationships Between Truth Sets

## Reference:

Hub, A., \& Dawkins, P. C. (2018). On the construction of set-based meanings for the truth of mathematical conditionals. The Journal of Mathematical Behavior, 50, 90-102.

## Group Task

For each pair of open statements given below, work with your group to draw an appropriate Euler diagram and describe the relationship between their truth sets.

1. $P(x): x$ is a multiple of 3 .
$Q(x): x$ is a multiple of 6 .
2. $P(x): x$ is a multiple of 4 .
$Q(x): x$ is a multiple of 5 .
3. $P(x): x$ is odd.
$Q(x): x$ is a multiple of 4 .
