

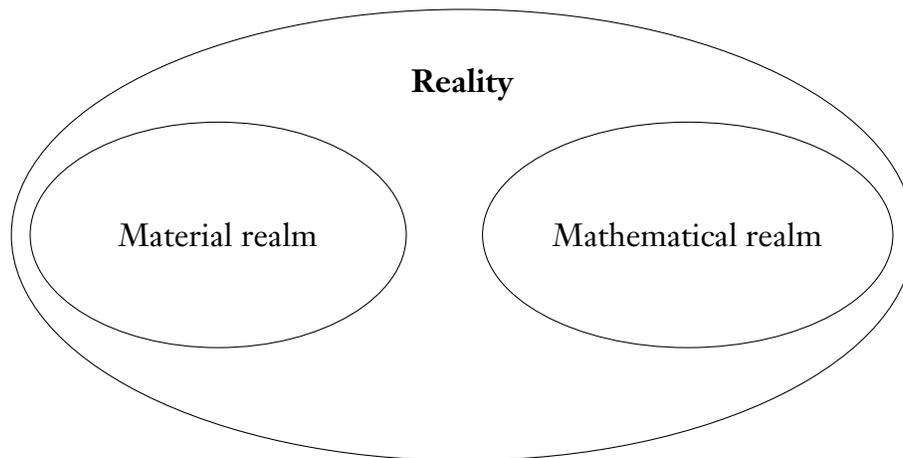
PLATONISM

Ted Sider
Philosophy of Mathematics

1. Metaphysics: an immaterial realm

Platonism Mathematics is about a causally isolated realm of eternal, indestructible, unchanging nonphysical, nonspatial objects that exist independently of us.

According to platonism there is more to reality than the material realm; there is in addition the realm of mathematics:



Material objects can be sensed and are subject to change. Mathematical entities are eternal, immutable, and causally and spatially isolated from us.

2. The challenge of applied mathematics

How could a causally isolated realm be so useful (e.g., in science)?

3. Epistemology: recollection

How can we know about an isolated realm of entities?

Plato's answer: we remember facts about mathematics from past lives. One theistic answer: God creates us with innate mathematical knowledge. Hmm...