

2: Up & Down

Name: _____



1. A ball is thrown upward at 30 m/s .
 - a) How long does it take to get to the top?
 - b) How long does it take to come back down from the top?
 - c) What is the total time in the air?



2. The Toy Projectile Launcher shoots a ball. It takes 2 seconds to get to the top, and 2 seconds to fall back down.
 - a) How fast did it shoot?
 - b) How fast is it going when it comes back down?



3. The famous basketball player Michael Jordan would be in the air (up & down) for about 1 second.
 - a) What was his time to the top?
 - b) How fast did he launch himself into the air?

3: Max Height

Name: _____



1. A ball is thrown upward at 20 m/s .
 - a) How long does it take to get to the top?
 - b) How high up did it go?



2. The Toy Projectile Launcher shoots a ball. It takes 3 seconds to get to the top, and 3 seconds to fall back down.
 - a) How fast did it shoot?
 - b) How high up did it go?



3. According to guinnessworldrecords.com, the fastest pitch was thrown by Aroldis Chapman and was clocked at 47 m/s (that's 105 mi/hr!) If he had thrown it straight up...
 - a) How much time would it take to get to the top?
 - b) How high up would it go?