**Common Units:**

A. 60 mph to ft/sec



B. 60 mph to meters/sec



 a. Meters/sec to kilometers/sec

 

 b. Meters/sec to millimeters/sec

 

C. 60 mph to furlongs/fortnight



**Units of convenience:**

A. Empire State Buildings

 a. How many Empire State Buildings in the Burj Khalifa (2,722ft)?



b. How many Empire State Buildings in White Hall (200ft)?



B. Smoot units to feet

a. First, 1 smoot unit is 5’7”, so to make 7” a fraction of a foot, 7/12 = 0.583. The conversion factor becomes 5.583 ft.

 

b. Smoots to meters



C. Students make their own units. Answers will vary.

D. Gas mileage as the reciprocal of area. Details in the Unit Lesson handout.

E. Estimate the time it takes for a bird to poop in your mouth. Answer in the Unit Lesson handout.