

Unit Conversion Madness!

Name _____
Per _____

KEY

Show all work for full credit (show factors and canceling units)

Conversion Factors you will use:

- 1 slug = 16 boggles
- 2.3 boggles = 1 romp
- 55 romps = 1 fetter
- 1 fetter = 8.6 chuks

slug - boggle - romp - fetter - chuk

EX1) 250. slugs $\left(\frac{16 \text{ bog}}{1 \text{ slug}}\right) \left(\frac{1 \text{ romp}}{2.3 \text{ bog}}\right) \left(\frac{1 \text{ fetter}}{55 \text{ romp}}\right) = 31.62$ 31.6 feters

2) 345 chuks $\left(\frac{1 \text{ fet}}{8.6 \text{ chuk}}\right) \left(\frac{55 \text{ romp}}{1 \text{ fet}}\right) \left(\frac{2.3 \text{ bog}}{1 \text{ romp}}\right) = 50.74$ 5.10×10^3 boggles

3) 5.65 boggles $\left(\frac{1 \text{ romp}}{2.3 \text{ bog}}\right) \left(\frac{1 \text{ fet}}{55 \text{ romp}}\right) \left(\frac{8.6 \text{ chuk}}{1 \text{ fet}}\right) = 0.3841$ 0.384 chuks

4) 0.0025 feters $\left(\frac{55 \text{ romp}}{1 \text{ fet}}\right) \left(\frac{2.3 \text{ bog}}{1 \text{ romp}}\right) \left(\frac{1 \text{ slug}}{16 \text{ bog}}\right) = 0.019765$ 0.020 slugs

5) 0.125 chuks $\left(\frac{1 \text{ fet}}{8.6 \text{ chuks}}\right) \left(\frac{55 \text{ romp}}{1 \text{ fet}}\right) \left(\frac{2.3 \text{ bog}}{1 \text{ romp}}\right) = 1.8386$ 1.84 boggles

6) 0.0369 chuks $\left(\frac{1 \text{ fet}}{8.6 \text{ chuk}}\right) \left(\frac{55 \text{ romp}}{1 \text{ fet}}\right) \left(\frac{2.3 \text{ bog}}{1 \text{ romp}}\right) \left(\frac{1 \text{ slug}}{16 \text{ bog}}\right) = 0.0339$ 0.0339 slugs

7) 0.98 romps $\left(\frac{2.3 \text{ bog}}{1 \text{ romp}}\right) \left(\frac{1 \text{ slug}}{16 \text{ bog}}\right) = 0.1408$ 0.14 slugs

8) 0.75 fetter $\left(\frac{55 \text{ romp}}{1 \text{ fet}}\right) \left(\frac{2.3 \text{ bog}}{1 \text{ romp}}\right) = 94.875$ 95 boggles

9) 352 chuks $\left(\frac{1 \text{ fet}}{8.6 \text{ chuk}}\right) \left(\frac{55 \text{ romp}}{1 \text{ fet}}\right) = 2251$ 2250 romps
or 2.25×10^3