

Converting Metric and Imperial measurements – Mass

$$1 \text{ kg} \approx 2.2 \text{ lb (pounds)}$$

$$1 \text{ stone} \approx 6.4 \text{ kg}$$

$$1 \text{ lb} = 16 \text{ ounces}$$

$$1 \text{ stone} = 14 \text{ lb}$$

1. Convert the following masses into pounds:

a. $2 \text{ kg} \approx 4.4 \text{ lb}$

b. $7 \text{ kg} \approx 15.4 \text{ lb}$

c. $10.5 \text{ kg} \approx 23.1 \text{ lb}$

d. $0.2 \text{ kg} \approx 0.44 \text{ lb}$

e. $500 \text{ g} \approx 1.1 \text{ lb}$

f. $3\,400 \text{ g} \approx 7.48 \text{ lb}$

g. $9.21 \text{ kg} \approx 20.26 \text{ lb}$

h. $1 \text{ tonne} \approx 2\,200 \text{ lb}$

i. $1 \text{ g} \approx 0.0022 \text{ lb}$

2. Convert the following measurements into kg (give your answers to 1 d.p.):

a. $8.8 \text{ lb} \approx 4 \text{ kg}$

b. $1.1 \text{ lb} \approx 0.5 \text{ kg}$

c. $3 \text{ lb} \approx 1.36 \text{ kg}$

d. $2 \text{ stone} \approx 12.8 \text{ kg}$

e. $6 \text{ stone} \approx 38.4 \text{ kg}$

f. $3 \text{ stone } 2 \text{ lb} \approx 20.1 \text{ kg}$

g. $7 \text{ stone } 5 \text{ lb} \approx 47.1 \text{ kg}$

h. $6 \text{ ounces} \approx 0.17 \text{ kg}$

i. $3 \text{ lb } 9 \text{ ounces} \approx 1.62 \text{ kg}$

3. For each pair of measurements, circle the heaviest mass:

a. 4 kg or 9 lb

b. 2 lb or 30 ounces

c. 3.5 stone or 20 kg

d. 20 lb or 7 kg

e. 2 stone or 400 ounces

f. 250 ounces or 8.5 kg

4. Briony is baking a cake. The recipe needs 5 ounces of butter for the icing and 6 ounces of butter for the sponge. Briony has a 300g block of butter.

Does she have enough butter to make the cake and the icing?

$11 \text{ ounces} \approx 310 \text{ g}$ No, she does not have enough.

5. The weight limit on a fairground ride is 150kg. James weighs 13 stone and Bilal weighs 60 kg.

Can James and Bilal go on the ride together?

$$83.2 + 60 = 143.2 \text{ kg}$$

Yes