

Section 5.3 - Mass in a SI System

PRACTISE YOUR NEW SKILLS

1. Convert the following weights.

a) $2.5 \text{ t} = \underline{\hspace{2cm}} \text{ kg}$

b) $2.8 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

c) $125 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

d) $2.4 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

e) $1 \text{ t} = \underline{\hspace{2cm}} \text{ lb}$

f) $3.6 \text{ tn} = \underline{\hspace{2cm}} \text{ kg}$

2. How many tons are in 1 tonne?

3. What is the total weight in grams of 3 packages of nuts weighing 1.2 kg, 0.75 kg, and 1.5 kg?

4. Win weighs 78 kg and his dog weighs 18 kg. If his truck weighs 1.9 t and there are 5 boxes of books each weighing 9.8 kg in the truck, what is the total weight of the truck, including Win, his dog, and the books?

5. Karen is making a batch of potato soup. She needs 8 potatoes, and each potato weighs about 375 g. How many pounds of potatoes does she need?

6. If a 10-lb bag of grass seed costs \$75.45, how much does the seed cost per kilogram?

7. How many quarter-pound (before cooking) hamburgers can you make from 1.9 kg of ground beef?

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1. a) 2500 kg

b) 2800 g

c) 0.125 kg

d) 0.0024 kg

e) 2200 lb

f) 3272.4 kg

2. 1 tonne (t) \approx 1.1 tons (tn)

3. 3450 g

4. 2045 kg

5. 6.6 lb

6. \$16.61/kg

7. 16 hamburgers