Proportional Scaling - set samples - paper 1

Use the table to answer each question.

1. The table lists liquid volumes inside a workshop supply cabinet.
   Clara uses 4/5 of the supplies in the cabinet.
   Find the volume of engine oil (in L) that Clara uses.

   ans_____

	Per 1/5 cabinet
Engine oil	2.0 L
Petrol	5.5 L
Coolant	0.2 L
Diesel	6.2 L

2. The table shows the composition of a box of plant food.
   Tina uses 3/4 of the box of plant food in the garden.
   Calculate the mass of nitrogen (in g) that Tina uses.

   ans_____

	Per 1/4 box
Nitrogen	48.6 g
Moisture	23.0 g
Organic matter	46.2 g
Potassium	11.6 g

3. The table shows the composition of a potting soil batch.
   Luciana uses 3/8 of the potting soil batch in the garden.
   Calculate the mass of potassium (in g) that Luciana uses.

   ans_____

	Per 1/8 batch
Organic matter	80.6 g
Sand	93.4 g
Phosphorus	19.5 g
Potassium	15.5 g

Proportional Scaling - set samples - Answers

1. 1/5 of the cabinet contains 2 L of engine oil.
   Clara uses 4/5 of the cabinet, which is:
   4 x 2 = 8
   Answer: 8 L

2. 1/4 of the box contains 48.6 g of nitrogen.
   Tina uses 3/4 of the box, which is:
   3 x 48.6 = 145.8
   Answer: 145.8 g

3. 1/8 of the batch contains 15.5 g of potassium.
   Luciana uses 3/8 of the batch, which is:
   3 x 15.5 = 46.5
   Answer: 46.5 g