



The Empty Crate

MathApex

Name: _____

Date: _____



Watch video

From the video $5 \text{ kg} - 1 \text{ kg } 500 \text{ g} = 5000 \text{ g} - 1500 \text{ g} = 3500 \text{ g}$ **1 Now it's your turn!**

A full crate weighs 9 kg, the empty crate 1 kg 500 g. How many grams do the apples weigh?

9 kg = 9000 g, 1 kg 500 g = 1500 g.

$$9000 - 1500 = \boxed{} \text{ g}$$

2 kg and g.

1 kg = 1000 g. Convert.

	g
1 kg 20 g	
1 kg 500 g	
2 kg 250 g	

	kg	g
1200 g		
7500 g		
2050 g		

3 Other units.

1 kg = 1000 g, 1 l = 1000 ml, 1 m = 100 cm, 1 km = 1000 m.

$$3 \text{ l} = \boxed{} \text{ ml}$$

$$2 \text{ m} = \boxed{} \text{ cm}$$

$$5 \text{ km} = \boxed{} \text{ m}$$

5 Think backwards.

5 identical parcels weigh 3000 g altogether. How much does one weigh?

$$3000 \div 5 = \boxed{} \text{ g}$$

6 The units chart.

	kg	g
1250 g		
2070 g		
4600 g		
3005 g		

Split each amount into kg and g.

4 Calculate with units.

a) $4 \text{ kg} + 2 \text{ kg } 500 \text{ g} =$

$$\boxed{} \text{ g}$$

b) $3 \text{ kg } 250 \text{ g} + 1 \text{ kg } 500 \text{ g} =$

$$\boxed{} \text{ g}$$

Tip: convert everything to g.

★ Brain teaser

A parcel weighs 4 kg 250 g. How much do 2 parcels weigh? Write the result in kg and g.



The Empty Crate

**1** Now it's your turn!

$$9000 - 1500 = 7500 \text{ g} = 7 \text{ kg } 500 \text{ g}$$

2 kg and g.

$$1 \text{ kg } 20 \text{ g} = 1020 \text{ g}$$

$$1 \text{ kg } 500 \text{ g} = 1500 \text{ g}$$

$$2 \text{ kg } 250 \text{ g} = 2250 \text{ g}$$

$$1200 \text{ g} = 1 \text{ kg } 200 \text{ g}$$

$$7500 \text{ g} = 7 \text{ kg } 500 \text{ g}$$

$$2050 \text{ g} = 2 \text{ kg } 50 \text{ g}$$

3 Other units.

$$3 \text{ l} = 3000 \text{ ml} \quad 2 \text{ m} = 200 \text{ cm} \quad 5 \text{ km} = 5000 \text{ m}$$

4 Calculate with units.

$$4000 + 2500 = 6500 \text{ g}$$

$$3250 + 1500 = 4750 \text{ g}$$

5 Think backwards.

$$3000 \div 5 = 600 \text{ g}$$

★ Brain teaser

$$8500 \text{ g} = 8 \text{ kg } 500 \text{ g}$$

6 The units chart.

$$1250 \text{ g} = 1 \text{ kg } 250 \text{ g} \quad 2070 \text{ g} = 2 \text{ kg } 70 \text{ g}$$

$$4600 \text{ g} = 4 \text{ kg } 600 \text{ g} \quad 3005 \text{ g} = 3 \text{ kg } 5 \text{ g}$$

For parents and teachers: This worksheet goes with the video "The Empty Crate" (Math Story 91, Grade 4). Converting units: 1 kg = 1000 g. Convert mixed amounts to the small unit first, then calculate, and convert back at the end.

More Math Stories with video and worksheet: www.mathapex.app/en/math-stories/