WONDERLEARNERZ PRIMARY ACADEMY â€" OFFICIAL ANSWER KEY & MARKING SCHEME

Weight and Mass - Worksheet 2 [ANSWER KEY]

Grade 3 | Mathematics | Ch 11: Weight and Mass | Total Marks: 19 | Time: 30 Minutes

Q1. How many grams are there in 5 kilograms? [1 Mark]

Correct Answer: 5,000 g

Explanation: 1 kg = 1,000 g. 5 x 1,000 = 5,000 g.

Q2. Convert 1500 grams into kilograms and grams: [1 Mark]

Correct Answer: 1 kg 500 g

Explanation: 1500 g = 1 kg and 500 g.

Q3. Which object would most appropriately be weighed in grams (g) rather than kilograms (kg)? [1 Mark]

Correct Answer: A postage stamp

Explanation: Light objects like postage stamps and feathers are weighed in grams.

Q4. A kitchen scale shows 1 kg 750 g. How many total grams is this? [1 Mark]

Correct Answer: 1,750 g

Explanation: 1 kg = 1,000 g. 1,000 + 750 = 1,750 g.

Q5. At the Supermarket Grocery Depot, an assistant packs 6 packages each weighing 250 grams. What is the combined mass of all 6 packages? [1 Mark]

Correct Answer: 1500 g (1 kg 500 g)

Explanation: 6 x 250 g = 1500 g.

Q6. A baby panda weighed 3 kg 200 g at birth. After one month, it gained 1 kg 600 g. What was its new mass? [1 Mark]

Correct Answer: 4 kg 800 g

Explanation: 3 kg 200 g + 1 kg 600 g = 4 kg 800 g.

Q7. A bag of flour weighs 5 kg. A baker uses 1,800 g for bread and 700 g for cakes. How many grams of flour remain? [1 Mark]

Correct Answer: 2,500 g

Explanation: 5 kg = 5,000 g. Used: 1,800 + 700 = 2,500 g. Remaining: 5,000 - 2,500 = 2,500 g.

Q8. Find the missing value: 2 kg 400 g + [?] g = 3 kg [1 Mark]

Correct Answer: 600 g

Explanation: 3 kg = 3,000 g. 3,000 - 2,400 = 600 g.

Q9. Complete the balance scale: 1 kg weight = Two 250g weights + [?] g [1 Mark]

Correct Answer: 500 g

Explanation: Two 250 g weights = 500 g. 1,000 g - 500 g = 500 g.

Q10. A student writes: '3 kg 50 g is equal to 3,500 g.' What is the student's mistake? [1 Mark]

Correct Answer: 3,500 g is 3 kg 500 g; 3 kg 50 g is actually 3,050 g

Explanation: 50 grams has 0 hundreds, so 3,000 + 50 = 3,050 g, not 3,500 g.

Q11. Kevin subtracts: 4 kg 200 g - 1 kg 800 g and writes 3 kg 600 g because 800 - 200 = 600. What did Kevin do wrong? [1 Mark]

Correct Answer: Kevin subtracted the smaller top number from the larger bottom number; he should borrow 1 kg (1,000 g) to make 1,200 g - 800 g = 400 g (Result: 2 kg 400 g)

Explanation: When the top gram value is smaller, borrow 1 kg (1,000 g): 3 kg 1,200 g - 1 kg 800 g = 2 kg 400 g.

Q12. Why is a balance scale with two equal arms considered one of the most reliable [2 Marks]
tools for comparing masses?
Correct Answer: When both sides balance horizontally, the downward gravitational force on both pans is identical, proving their masses are equal
Explanation: A balance scale compares unknown masses directly against standard masses using gravitational equilibrium.

Q13. If you cut a 1 kg block of cheese into 4 identical smaller blocks, what will be [2 Marks]
the exact mass of each smaller block?
Correct Answer: 250 grams
Explanation: 1 kg = 1,000 g. 1,000 g / 4 = 250 grams per block.

Q14. A delivery box containing 6 identical books has a total gross mass of 4 kg 500 g. [2 Marks]
The empty cardboard box weighs 300 g. What is the mass of ONE individual book?
Correct Answer: 700 grams
Explanation: Net mass of 6 books = 4,500 g - 300 g = 4,200 g. Each book = 4,200 / 6 = 700 grams.

Q15. A chef has three bags of sugar: Bag A weighs 2 kg 450 g, Bag B weighs 1 kg 800 g, [2 Marks]
and Bag C weighs 3 kg 150 g. What is the total combined mass of all three bags?
Correct Answer: 7 kg 400 g
Explanation: Kg: 2 + 1 + 3 = 6 kg. Grams: 450 + 800 + 150 = 1,400 g = 1 kg 400 g. Total = 7 kg 400 g.