Name Key NC.4.MD.1 & NC.4.MD.2 CFA (Cluster 9)

1. One bottle of soda holds approximately 625 mL. A fish tank holds 8 times more water than the bottle of soda. How much soda could the fish tank hold?

   a. 633 mL
   b. 617 mL
   c. 5,000 mL
   d. 5,625 mL

   2 4
   625
   x 8
   5000

   600 x 8 = 4800
   20 x 8 = 160
   5 x 8 = 40
   5000

2. Chris hired movers to help him move to his new house. The movers said they would not lift boxes that weighed more than 80 kilograms. What is the weight limit that the movers will not lift?

   80 x 1000 = 80,000

   a. 80,000 grams
   b. 8,000 grams
   c. 800,000 grams
   d. 8,000,000 grams

3. I have 525 L of pancake batter. I need to divide the batter equally into 5 containers. How much pancake batter will be in each container?

   525 ÷ 5

   500 ÷ 5 = 100
   25 ÷ 5 = 5

   a. 520 L
   b. 105 L
   c. 2,625 L
   d. 15 L

4. A box of crackers weighs 290 grams. What is the fewest number of boxes I should buy in order to have 1 kilogram of crackers?

   a. 4
   b. 5
   c. 3
   d. 2

   290 (1)
   +290 (2)
   580
   +290 (3)
   870
   +290 (4)
   1160

   I need to have at least 1000g

5. Melanie needs 3.5 meters of ribbon to decorate a package. She has 1.5 meters of ribbon right now. The ribbon is only sold in centimeter lengths. How many centimeter lengths of ribbon does Melanie need to buy in order to have the amount she needs?

a. 200 centimeters of ribbon
b. 250 centimeters of ribbon
c. 150 centimeters of ribbon
d. 400 centimeters of ribbon

3.5 − 1.5 = 2.0

2m = 200 cm (×100)

6. The art teacher has a bottle of glue that holds 4 Liters. She wants to divide the glue into 8 smaller glue bottles. What is the amount of glue that will be in each small glue bottle?

a. 50 mL
b. 5,000 mL
c. 500 mL
d. 5 mL

4L = 4000mL

500 × 8 = 4000

7. What numbers should be used to complete the table below?

Meters	Centimeters
5	500
6	600
6.5	650
?	700
7.5	?

(×10 → ×10 → ×10 → ×10 → 750)

a. 8 and 850
b. 70 and 7,500
c. 9 and 900
d. 7 and 750

8. Kristin has a two liter bottle of Pepsi ™, a two liter bottle of Sprite™ and a two liter bottle of Dr. Pepper™. How many milliliters does she have all together?

2+2+2=6L → x1000 → 6000mL

a. 6 mL
b. 6,000 mL
c. 3 mL
d. 3,000 mL

9. One individual box of mints weighs 34 grams. What is the weight of 7 boxes of mints?

34 x 7

30x5=150
4x5=20
30x2=60
4x2=8
238

a. 41 grams
b. 27 grams
c. 238 grams
d. 228 grams

10. What numbers belong in the chart below?

Grams	Kilograms
1,000	1
5,000	5
10,000	10
15000	15
20,000	20

half between

a. 15 and 15,000
b. 12 and 12,000
c. 14 and 14,000
d. 16 and 16,000

ANSWER KEY MD.1 AND MD.2 (CLUSTER 9)

1. C
2. A
3. B
4. A
5. A
6. C
7. D
8. B
9. C
10. A

***Questions adapted from SchoolNet and NCDPI Unpacking Document*