

Grade 4 Unit 5

Lesson 9

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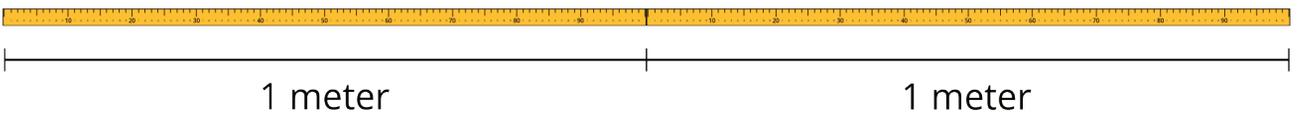
Unit 5 Lesson 9: Grams and Kilograms, Liters and Milliliters

WU Which One Doesn't Belong: Meter, Meter on the Page (Warm up)

Student Task Statement

Which one doesn't belong?

- A. 2 m
- B. 2,000 meters
- C. 200 centimeters
- D.



1 A Whole Lot of Paper Clips

Student Task Statement

One paper clip weighs 1 gram.



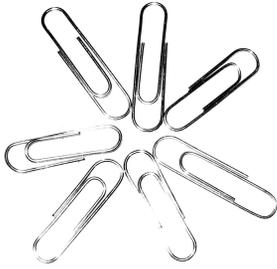
1. How many grams are the paper clips in each image?

a.

b.

c.





2. The paper clips in this image weigh 1 kilogram.



What is the relationship between kilograms and grams?

3. Complete the table with the missing amounts in grams.

kilograms (kg)	grams (g)
2	
7	

kilograms (kg)	grams (g)
15	
$\frac{1}{2}$	
$9\frac{1}{2}$	

4. Which weighs more? Be prepared to explain how you know.
- 8 kilograms or 8 boxes with 100 paper clips in each box
 - 1,250 paper clips or 1 kilogram
 - 500 grams or 2 boxes of 250 paper clips in each box
 - $\frac{1}{2}$ kilogram or 500 paper clips

2 Liters and Milliliters

Student Task Statement



- Estimate: How many times do we fill the 100-milliliter glass to get 1 liter of liquid? (Assume that each time the liquid is filled to the 100-milliliter line.)
 - Write a sentence to describe the relationship between milliliters and liters.
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2. How many times do we need to fill each of these containers to get 1 liter?
- a. A 1-milliliter medicine dropper
 - b. A 250-milliliter measuring cup
 - c. A 20-milliliter cup
3. Complete the table with the missing amounts in liters or milliliters.

liters (L)	milliliters (mL)
1	
4	
7	
16	
	500
	20,000