## Another Look!

Jasmine finished 9 centimeters of the scarf she is knitting. Manuella finished 108 millimeters of her scarf. How much longer is Manuella's scarf than Jasmine's?

## Step 1

Convert 9 centimeters to millimeters.
1 centimeter $=10$ millimeters
$9 \times 10=90$ millimeters
$\uparrow \uparrow$
Number of Millimeters
centimeters per centimeter
9 centimeters $=90$ millimeters

Additional
to a smaller unit like

## Step 2

Find the difference, $d$.
108 mm

| 90 mm | $d$ |
| :--- | :--- |

$108-90=d$
$d=18$
Manuella's scarf is 18 millimeters longer than Jasmine's scarf.

In 1-3, tell what metric unit you would use to measure each.

1. Height of a tree
2. The width of a kernel of corn
3. The length of your arm
4. 8 kilometers $=$ $\qquad$ meters
5. 7 meters $=$ $\qquad$ centimeters
6. 65 centimeters $=$ $\qquad$ millimeters
7. 2 meters $=$ $\qquad$ centimeters

For 8-9, complete each table.
8.

| Kilometers | Meters |
| :---: | :---: |
| 1 | 1,000 |
| 2 |  |
| 3 |  |

9. 

| Meters | Centimeters |
| :---: | :---: |
| 1 | 100 |
| 2 |  |
| 3 |  |

10. Brittney bought two bottles of shampoo like the one shown and paid $\$ 0.52$ tax. How much did she spend? Use bills and coins to solve.
11. Brittney paid for the shampoo with a $\$ 20$ bill. How much change did Brittney get back? Use bills and coins to solve.


## $\$ 2.88$

12. Jason is 1.4 meters tall. His brother is 0.9 meter tall. Who is taller? Show each height on the linear model. Explain.

13. Martha had 2.35 centimeters of her hair cut off. Neil had 2.53 centimeters cut. Who had more hair cut off? Explain.
14. A spider traveled 3 meters in one minute. How many centimeters did it travel?
15. Be Precise The ceiling of Mr.Vega's classroom is 3 meters high. The ceiling in the hall is 315 centimeters high. How much taller is the ceiling in the hall than in the classroom?
16. Higher Order Thinking A yellow ribbon is 56 centimeters long. It is twice as long as a green ribbon. A brown ribbon is 4 times as long as the green ribbon. What is the length of the brown ribbon?

## Assessment Practice

17. Select all the true statements.

D 1,000 kilometers $=100$ meters
$\square 11$ meters $=110$ centimeters
$\square 17$ centimeters $=170$ millimeters
$\square 5$ meters $=500$ millimeters5 kilometers $=5,000$ meters
18. Select all the true comparisons.


5 meters $<5,200$ millimeters


18 kilometers $<1,800$ meters


21 centimeters $>200$ millimeters


7 meters $<70$ centimeters6 meters $>6,200$ millimeters

