Practice Video Tools Games

Another Look!

Meg and Tina measured the length of their classroom. They wondered how the measurements compare.

Meg Our classroom is $9\frac{1}{3}$ yards long	Tina Length of classroom = 28 ft

Tell how you can use precision to compare the measurements.

- I can use numbers, units, and symbols correctly.

- I can calculate accurately.

- I can give a clear answer.

Use precision to compare the measurements.

Convert $9\frac{1}{3}$ yards to feet.

$9\frac{1}{3}$ yd = _____ ft

$9\frac{1}{3} \times 3 = \frac{28}{3} \times \frac{3}{1} = \frac{84}{3} = 28$

So, $9\frac{1}{3}$ yd = 28 ft.

Since $9\frac{1}{3}$ yd = 28 ft, the measurements are equal.

Be Precise

William bought a 0.5-liter bottle of liquid plant food. He uses 40 milliliters a week.

> Be precise when you work with measurements, and communicate your reasoning clearly.

1. What measurements are given? Are the same units used for each measurement? Explain.

2. Explain how you can convert one of the measurements so that both use the same unit.

3. How much plant food does William need for 12 weeks? Explain.

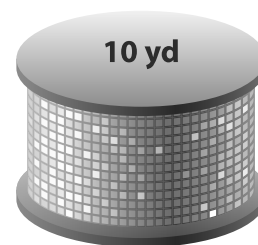4. Is one bottle enough for 12 weeks? Give a clear answer.

Buying Ribbon
Mimi needs eleven 18-inch pieces of rhinestone ribbon. She purchased 5 yards of the ribbon shown at the right.

10 yd

5. Be Precise What is the total amount of ribbon Mimi needs? Explain.

**$6 per yard
or
$55 for the whole spool**

6. Reasoning Do you need to convert measurements to determine if Mimi purchased the right amount of ribbon? Explain.

To be precise, you need to check that you are using units of measure correctly and that your conversions are accurate.

7. Model with Math Show how to convert the measurements you described in Exercise 6.

8. Be Precise Did Mimi purchase the correct amount of ribbon? Explain.

9. Make Sense and Persevere If Mimi purchases the additional ribbon she needs, what will be the total cost of all the ribbon? Show two different ways to find the answer.