

## Mixed Measures

Gabrielle's puppy weighs 2 pounds 7 ounces. What is the weight of the puppy in ounces?

**Step 1** Think of 2 pounds 7 ounces as 2 pounds + 7 ounces.

**Step 2** Change the pounds to ounces.

Think: 1 pound = 16 ounces

So, 2 pounds =  $2 \times 16$  ounces, or 32 ounces.

**Step 3** Add like units to find the answer.

$$\begin{array}{r} 32 \text{ ounces} \\ + 7 \text{ ounces} \\ \hline 39 \text{ ounces} \end{array}$$

So, Gabrielle's puppy weighs 39 ounces.

Gabrielle played with her puppy for 2 hours 10 minutes yesterday and 1 hour 25 minutes today. How much longer did she play with the puppy yesterday than today?

**Step 1** Subtract the mixed measures. Write the subtraction with like units lined up.

Think: 25 minutes is greater than 10 minutes.

$$\begin{array}{r} 2 \text{ hr } 10 \text{ min} \\ - 1 \text{ hr } 25 \text{ min} \\ \hline \end{array}$$

**Step 2** Rename 2 hours 10 minutes to subtract.

1 hour = 60 minutes

So, 2 hr 10 min = 1 hr + 60 min + 10 min, or 1 hr 70 min.

$$\begin{array}{r} 1 \quad 70 \\ \cancel{2} \text{ hr } \cancel{10} \text{ min} \\ - 1 \text{ hr } 25 \text{ min} \\ \hline 0 \text{ hr } 45 \text{ min} \end{array}$$

**Step 3** Subtract like units.

1 hr – 1 hr = 0 hr; 70 min – 25 min = 45 min

So, she played with the puppy 45 minutes longer yesterday than today.

**Complete.**

**1** 4 yd 2 ft = \_\_\_\_\_ ft    **2** 1 hr 20 min = \_\_\_\_\_ min    **3** 4 qt 1 pt = \_\_\_\_\_ pt

**Add or subtract.**

**4** 2 gal 1 qt

+ 3 gal 2 qt

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**5** 3 lb 12 oz

– 1 lb 8 oz

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**6** 4 yr 9 mo

– 1 yr 10 mo

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