

7th Grade Lesson 49

- I can add mixed measures.

A mixed measure is a measurement that includes different units from the same category.

Ivan is 5 feet 8 inches tall.

The movie was 1 hour 48 minutes long.

To add mixed measures, we align the numbers in order to add units that are the same. Then we simplify when possible.

Add and simplify: 1 yd 2 ft 7 in. + 2 yd 2 ft 8 in.

$$\begin{array}{r}
 1 \text{ yd } 2 \text{ ft } 7 \text{ in} \\
 + 2 \text{ yd } 2 \text{ ft } 8 \text{ in} \\
 \hline
 3 \text{ yd } 4 \text{ ft } 15 \text{ in.} \\
 + 1 \text{ ft } - 12 \text{ in} \\
 \hline
 3 \text{ yd } 5 \text{ ft } 3 \text{ in} \\
 + 1 \text{ yd } - 3 \text{ ft} \\
 \hline
 4 \text{ yd } 2 \text{ ft } 3 \text{ in}
 \end{array}$$

Add and simplify:

$$\begin{array}{r}
 5 \text{ ft } 20 \text{ in} \\
 + 1 \text{ ft } - 12 \text{ in} \\
 \hline
 6 \text{ ft } 8 \text{ in} \\
 + 2 \text{ yd } - 6 \text{ ft} \\
 \hline
 2 \text{ yd } 8 \text{ in}
 \end{array}$$

$$\begin{array}{r}
 2 \text{ hr } 40 \text{ min } 35 \text{ s} \\
 + 1 \text{ hr } 45 \text{ min } 50 \text{ s} \\
 \hline
 3 \text{ hr } 85 \text{ min } 85 \text{ s} \\
 + 1 \text{ min } - 60 \text{ s} \\
 \hline
 3 \text{ hr } 86 \text{ min } 25 \text{ s} \\
 + 1 \text{ hr } - 60 \text{ min} \\
 \hline
 4 \text{ hr } 26 \text{ min } 25 \text{ s}
 \end{array}$$

Assignment

Problem Set 49

*A/B Optional: #3, 9, 10, 24, 25, 28