



Name _____ Date _____

Adding and Subtracting Measures of Time

(pages 254–257)

You add and subtract measures of time in the same way you add and subtract mixed numbers.

<p>Adding and Subtracting Measures of Time</p>	<ul style="list-style-type: none"> • Add or subtract the seconds. • Add or subtract the minutes. • Finally, add or subtract the hours. <p>Rename, if necessary, in each step.</p>
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EXAMPLES

A Find $3\text{ h } 15\text{ min} + 2\text{ h } 20\text{ min}$.

<p><i>First add the minutes.</i></p> $\begin{array}{r} 3\text{ h } 15\text{ min} \\ + 2\text{ h } 20\text{ min} \\ \hline 35\text{ min} \end{array}$	→	<p><i>Then add the hours.</i></p> $\begin{array}{r} 3\text{ h } 15\text{ min} \\ + 2\text{ h } 20\text{ min} \\ \hline 5\text{ h } 35\text{ min} \end{array}$
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B Find $8\text{ h } 12\text{ min} - 6\text{ h } 48\text{ min}$.

<p><i>First rename.</i></p> $\begin{array}{r} 7\text{ h } 72\text{ min} \\ - 6\text{ h } 48\text{ min} \\ \hline \end{array}$	→	<p><i>Subtract the minutes.</i></p> $\begin{array}{r} 7\text{ h } 72\text{ min} \\ - 6\text{ h } 48\text{ min} \\ \hline 24\text{ min} \end{array}$	→	<p><i>Subtract the seconds.</i></p> $\begin{array}{r} 7\text{ h } 72\text{ min} \\ - 6\text{ h } 48\text{ min} \\ \hline 1\text{ h } 24\text{ min} \end{array}$
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Try These Together

Add or subtract. Rename if necessary.

1. $4\text{ min } 32\text{ s} + 8\text{ min } 41\text{ s}$

HINT: Add the seconds, and then add the minutes.

2. $11\text{ min } 4\text{ s} - 5\text{ min } 12\text{ s}$

HINT: Rename, subtract the seconds, and then subtract the minutes.

PRACTICE

Complete.

3. $3\text{ h } 14\text{ min} = 2\text{ h } \underline{\quad} \text{ min}$

4. $17\text{ h } 18\text{ min} = 16\text{ hr } \underline{\quad} \text{ min}$

5. $12\text{ h } 6\text{ min} = 11\text{ hr } \underline{\quad} \text{ min}$

6. $2\text{ h } 9\text{ min } 62\text{ s} = 2\text{ h } \underline{\quad} \text{ min } 2\text{ s}$

Add or subtract. Rename if necessary.

7.
$$\begin{array}{r} 8\text{ h } 46\text{ min} \\ - 1\text{ h } 52\text{ min} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 4\text{ h } 36\text{ min} \\ - 3\text{ h } 5\text{ min} \\ \hline \end{array}$$

9.
$$\begin{array}{r} 6\text{ h } 24\text{ min} \\ + 4\text{ h } 18\text{ min} \\ \hline \end{array}$$

10.
$$\begin{array}{r} 5\text{ h } 43\text{ min } 21\text{ s} \\ - 2\text{ h } 18\text{ min } 14\text{ s} \\ \hline \end{array}$$

11.
$$\begin{array}{r} 1\text{ h } 12\text{ min } 36\text{ s} \\ + 8\text{ h } 54\text{ min } 4\text{ s} \\ \hline \end{array}$$

12.
$$\begin{array}{r} 7\text{ h } 42\text{ min } 16\text{ s} \\ + 1\text{ h } 58\text{ min } 12\text{ s} \\ \hline \end{array}$$



13. Standardized Test Practice Margarita is flying from Chicago to Denver. Her $2\text{ h } 35\text{ min}$ flight leaves Chicago at 5:55 P.M. What time does the flight arrive in Denver? Hint: The local Chicago time is one hour ahead of the local time in Denver.

A 6:30 P.M.

B 5:30 P.M.

C 7:30 P.M.

D 8:30 P.M.

Answers: 1. 13 min 13 s 2. 5 min 52 s 3. 74 4. 78 5. 66 6. 10 7. 6 h 54 min 8. 1 h 31 min 9. 10 h 42 min 10. 3 h 25 min 7 s 11. 10 h 6 min 40 s 12. 9 h 40 min 28 s 13. C