

Challenge

Adding and Subtracting Time

You can add and subtract time. Remember that there are 60 minutes (min) in 1 hour (h).

$$\begin{array}{r} 6 \text{ h } 32 \text{ min} \\ + 2 \text{ h } 43 \text{ min} \\ \hline \end{array}$$

$$8 \text{ h } 75 \text{ min} = 9 \text{ h } 15 \text{ min}$$

$$\begin{array}{l} 8 \text{ h } 75 \text{ min} = 8 \text{ h} + 60 \text{ min} + 15 \text{ min} \\ = 9 \text{ h} + 15 \text{ min} \end{array}$$

$$\begin{array}{l} 7 \text{ h } 16 \text{ min} = 6 \text{ h} + 60 \text{ min} + 16 \text{ min} \\ = 6 \text{ h} + 76 \text{ min} \end{array}$$

$$\begin{array}{r} 7 \text{ h } 16 \text{ min} = \quad \mathbf{6 \text{ h } 76 \text{ min}} \\ - 4 \text{ h } 28 \text{ min} \quad - \underline{4 \text{ h } 28 \text{ min}} \\ \hline 2 \text{ h } 48 \text{ min} \end{array}$$

Add or subtract. Then solve each problem.

1.
$$\begin{array}{r} 10 \text{ h } 20 \text{ min} \\ - 7 \text{ h } 47 \text{ min} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 5 \text{ h } 45 \text{ min} \\ + 4 \text{ h } 34 \text{ min} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 9 \text{ h } 27 \text{ min} \\ - 5 \text{ h } 54 \text{ min} \\ \hline \end{array}$$

4. A plane left an airport at 1:23 P.M. It arrived at its destination in the same time zone at 4:10 P.M. How long was the flight?

5. Mr. Larson put a roast in the oven at 2:45 P.M. He cooked the roast for 3 hours 48 minutes. What time did Mr. Larson take the roast out of the oven?

6. Gabriel watched 3 old movies on videotape. The first movie was 62 minutes long. The second was 1 hour 34 minutes long. The third was 1 hour 25 minutes long. He started watching at 3:15 P.M. At what time did the last movie end?

7. How could you check your answers? Explain and give an example using one of the exercises above.

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Add or subtract. Then solve each problem.

1.
$$\begin{array}{r} 10 \text{ h } 20 \text{ min} \\ - 7 \text{ h } 47 \text{ min} \\ \hline \end{array}$$

2 h 33 min

2.
$$\begin{array}{r} 5 \text{ h } 45 \text{ min} \\ + 4 \text{ h } 34 \text{ min} \\ \hline \end{array}$$

10 h 19 min

3.
$$\begin{array}{r} 9 \text{ h } 27 \text{ min} \\ - 5 \text{ h } 54 \text{ min} \\ \hline \end{array}$$

3 h 33 min

4. A plane left an airport at 1:23 P.M. It arrived at its destination in the same time zone at 4:10 P.M. How long was the flight?

2 h 47 min

5. Mr. Larson put a roast in the oven at 2:45 P.M. He cooked the roast for 3 hours 48 minutes. What time did Mr. Larson take the roast out of the oven?

6:33 P.M.

6. Gabriel watched 3 old movies on videotape. The first movie was 62 minutes long. The second was 1 hour 34 minutes long. The third was 1 hour 25 minutes long. He started watching at 3:15 P.M. At what time did the last movie end?

7:16 P.M.

7. How could you check your answers? Explain and give an example using one of the exercises above. **Answers will vary. Possible answer:**

You could check each problem because addition

and subtraction are inverse operations. For exercise 1,

2 h 33 min added to 7 h 47 min equals 10 h 20 min.
