

Problems involving time

Find the answer to each problem.

A yard sale began at 12 P.M. and ended at 4:35 P.M. How long did it last?

$$12:00 \rightarrow 4:00 = 4 \text{ h}$$

 $4:00 \rightarrow 4:35 = 35 \text{ min}$
 $10:00 \rightarrow 4:35 = 35 \text{ min}$

4 h 35 min

Fred's watch says 2:27. What time will it say in 1h 26 min?

3:53

Rachel begins painting fences at 12:15 P.M. and finishes at 4:45 P.M. If she paints 3 fences, how long does each one take?



Joy works from 9 A.M. until 5 P.M. every day. If she takes an hour's lunch break, how many hours does she work altogether from Monday through Friday?



A train leaves at 2:29 P.M. and arrives at 10:47 P.M. How long does the trip take?



A castle has a 24-hour guard on the gate. Three soldiers share the work equally. If the first soldier starts his duty at 2:30 P.M., what times will the other two soldiers start their duties?

Soldier 2

Soldier 3

Kobe wants to videotape a program that starts at 3:30 P.M. and finishes at 5 P.M. If the program is on every day for the next five days, how many hours will he videotape?







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4 h 35 min

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3:53

Rachel begins painting fences at 12:15 P.M. and finishes at 4:45 P.M. If she paints 3 fences, how long does each one take?

1.5 h



 $\begin{array}{c}
12:15 \rightarrow 4:15 = 4 \text{ h} \\
4:15 \rightarrow 4:45 = 0.5 \text{ h} \\
1.5 \\
4.0 \\
1.5 \\
4.0 \\
3 \\
4.5 \\
1.5 \\
1.5 \\
0
\end{array}$

Joy works from 9 A.M. until 5 P.M. every day. If she takes an hour's lunch break, how many hours does she work altogether from Monday through Friday?

35 h



 $9 \text{ A.M.} \rightarrow 5 \text{ B.M.} = 8 \text{ h}$ 8 h - 1 h = 7 h 7 $\cancel{x} 5$ $\cancel{35}$

A train leaves at 2:29 P.M. and arrives at 10:47 P.M. How long does the trip take?

8 h 18 min



 $2:29 \rightarrow 10:29 = 8 \text{ h}$ $10:29 \rightarrow 10:47 = 18 \text{ min}$

A castle has a 24-hour guard on the gate. Three soldiers share the work equally. If the first soldier starts his duty at 2:30 P.M., what times will the other two soldiers start their duties?

Soldier 2

10:30 P.M.

Soldier 3

6:30 A.M.

 $\begin{array}{c}
8 \\
24 \\
24 \\
0
\end{array}$ 8 h each

2:30 fm. +8h \rightarrow 10:30 fm.
10:30 fm. +8h \rightarrow 6:30 Am.

Kobe wants to videotape a program that starts at 3:30 P.M. and finishes at 5 P.M. If the program is on every day for the next five days, how many hours will he videotape?

7.5 h



 $3:30 \rightarrow 4:30 = 1 \text{ h}$ $4:30 \rightarrow 5:00 = 0.5 \text{ h}$ 1 h + 0.5 h = 1.5 h 2 1.5 $\times 5$ 7.5

You may need to help children understand time periods so that they can manage the questions more easily. For example, borrowing an hour in a subtraction problem is the same as borrowing 60 minutes.

