
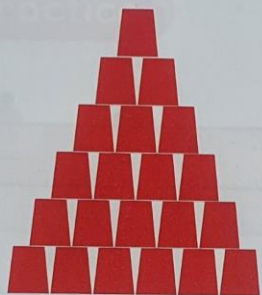



# Converting Units of Time


## Lesson 12




### In Focus

 won a cup-stacking contest.



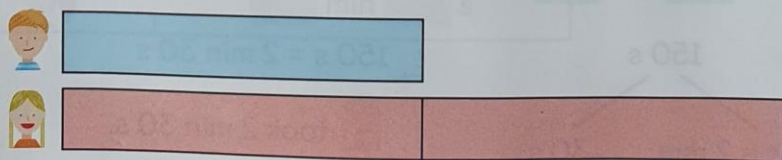
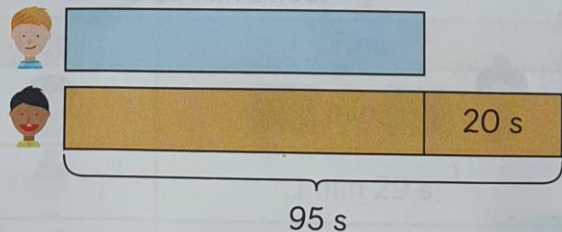
I took twice as long as .


I took 20 s more than .

 took 95 s. Is it possible to find out how long it took  and  ?


### Let's Learn

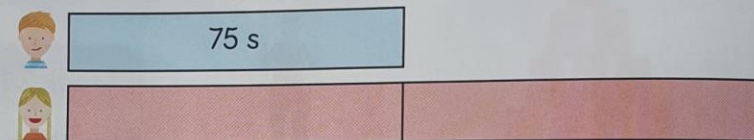
1 Draw diagrams for the story.




 Let's calculate.

$$95 \text{ s} - 20 \text{ s} = 75 \text{ s}$$

 took 75 s.




$$75 \text{ s} \times 2 = 150 \text{ s}$$

 took 150 s.

2  $75 \text{ s} = \text{ } \text{min } \text{ } \text{s}$

$$\begin{array}{c} 75 \text{ s} \\ \swarrow \quad \searrow \\ 60 \text{ s} = 1 \text{ min} \quad 15 \text{ s} \end{array}$$

$$75 \text{ s} = 1 \text{ min } 15 \text{ s}$$


 took 1 min 15 s.

$$1 \text{ min} = 60 \text{ s}$$

3  $150 \text{ s} = \text{ } \text{min } \text{ } \text{s}$

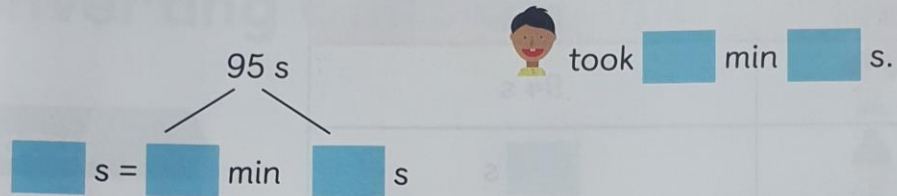
$$\begin{array}{c} 150 \text{ s} \\ \swarrow \quad \searrow \\ 120 \text{ s} = 2 \text{ min} \quad 30 \text{ s} \end{array}$$

$$150 \text{ s} = 2 \text{ min } 30 \text{ s}$$




 took 2 min 30 s.

$$1 \text{ min} = 60 \text{ s}$$




4  $95 \text{ s} = \square \text{ min } \square \text{ s}$



- 1  ran 400 m.

Pupil	Time
	94 s
	1 min 29 s
	129 s




- (a) Write their times in min and s.


Pupil	Time
	$\square \text{ min } \square \text{ s}$
	1 min 29 s
	$\square \text{ min } \square \text{ s}$

Compare their times.



- (b) Write 's time in s.

Pupil	Time
	94 s
	$\square \text{ s}$
	129 s

- 2  completed 3 levels of a game in 2 min 23 s.

It took me 3 times as long to complete Level 2 as to complete Level 1.




It took me half as long to complete Level 3 as to complete Level 2.

Level 1

Level 2

Level 3

?

How much time did  take for each level?

## Converting Units of Time

1 Fill in the blanks.

(a)  $70\text{ s} = \boxed{\phantom{00}}\text{ min } \boxed{\phantom{00}}\text{ s}$

(b)  $111\text{ s} = \boxed{\phantom{00}}\text{ min } \boxed{\phantom{00}}\text{ s}$




(c)  $567\text{ s} = \boxed{\phantom{00}}\text{ min } \boxed{\phantom{00}}\text{ s}$

(d)  $4\text{ min } 22\text{ s} = \boxed{\phantom{00}}\text{ s}$

(e)  $60\text{ min } 45\text{ s} = \boxed{\phantom{00}}\text{ s}$

(f)  $100\text{ min } 59\text{ s} = \boxed{\phantom{00}}\text{ s}$

2 This table shows the amount of time taken by three children to solve the Rubik's cube during a contest. Complete the table.

Child	in seconds	in minutes and seconds
	127 s	
		1 min 55 s
	159 s	

3 Amira takes 5 min 57 s to run round the school field three times. For each lap she takes 24 s longer than the previous lap. How long does she take to complete the last lap?

4 Emma takes 49 s to fold a paper flower. She takes twice as long to fold a paper crane (a long-legged bird). How long does she take to fold 50 paper cranes (assuming that she takes the same amount of time for each one)? Give your answer in minutes and seconds.