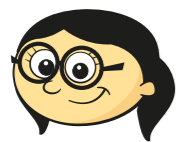


Measuring time in seconds

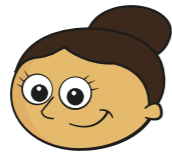
1 The table shows how long it took four children to run a race.

Child	Time
Annie	2 minutes 40 seconds
Dora	2 minutes 3 seconds
Tommy	2 minutes 30 seconds
Teddy	2 minutes 4 seconds

a) Match each child to a time.



Annie



Dora



Tommy



Teddy

00:02:30

00:02:04

00:02:03

00:02:40

b) Using the fact that there are 60 seconds in one minute, write each child's time in seconds.

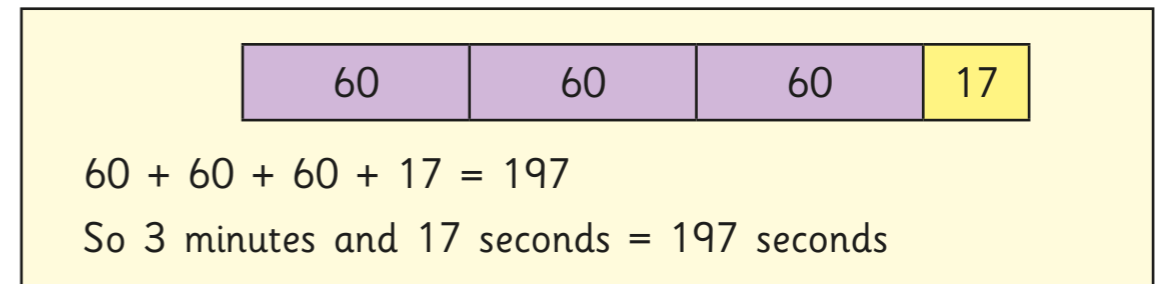
Annie seconds

Tommy seconds

Dora seconds

Teddy seconds

2 Scott draws a bar model to help him convert 3 minutes and 17 seconds into seconds.



Talk to a partner about why Scott's method works.

3 Complete the statements.

a) 2 minutes and 17 seconds = seconds

b) 5 minutes and 12 seconds = seconds

c) 4 minutes and 42 seconds = seconds

d) 3 minutes and seconds = 199 seconds

e) minutes and 7 seconds = 367 seconds

f) minutes and seconds = 261 seconds

g) 654 seconds = minutes and seconds

4 Write $<$, $>$ or $=$ to compare the times.

a) 1 minute and 23 seconds 81 seconds

b) 2 minutes and 15 seconds 135 seconds

c) 89 seconds 1 minute and 34 seconds

5  327 seconds is the same as 3 minutes and 27 seconds.

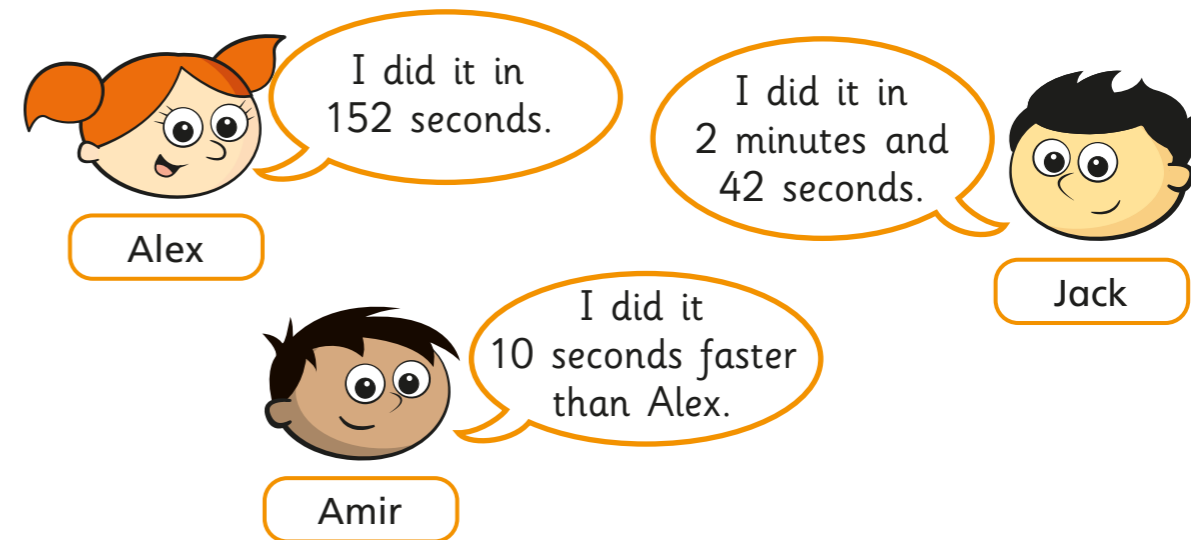
Do you agree with Whitney? _____
Why?

6 How long does the roller coaster ride last in minutes and seconds?

The roller coaster ride lasts minutes and seconds.



7 Alex, Jack and Amir are doing a puzzle.
They want to know who did it the quickest.



Alex: I did it in 152 seconds.

Jack: I did it in 2 minutes and 42 seconds.

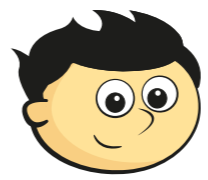
Amir: I did it 10 seconds faster than Alex.

a) How long did each child take to complete the puzzle?
Give your answer in seconds, and in minutes and seconds.

Alex seconds minutes and seconds

Jack seconds minutes and seconds

Amir seconds minutes and seconds

b)  I won because my time was highest!

Jack

Do you agree with Jack? _____
Talk about it with a partner.