

Step 10: Measuring Time in Seconds

Introduction

These 5 friends have just finished a race.
Place them in order on the podium from fastest to slowest.



Snail
62 seconds



Ladybird
40 seconds



Beetle
32 seconds



Caterpillar
64 seconds



Ant
9 seconds

1st

2nd

3rd

4th

5th

Who took longer than 1 minute?

Introduction

These 5 friends have just finished a race.
Place them in order on the podium from fastest to slowest.



Who took longer than 1 minute? **Snail and Caterpillar**

Varied Fluency 1

True or false?

Time in minutes	Time in seconds	True or false?
2 minutes	180 seconds	
3 minutes and 10 seconds	190 seconds	
1 minute and 15 seconds	115 seconds	
4 minutes 20 seconds	260 seconds	

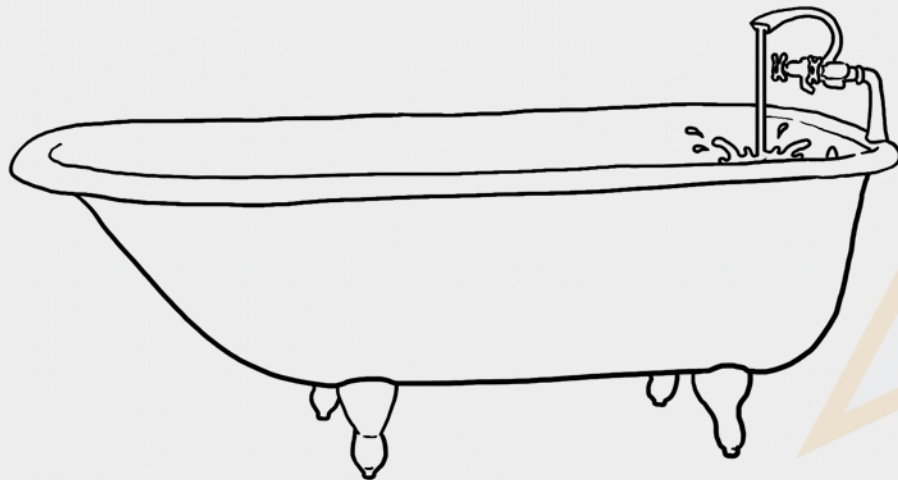
Varied Fluency 1

True or false?

Time in minutes	Time in seconds	True or false?
2 minutes	180 seconds	False
3 minutes and 10 seconds	190 seconds	True
1 minute and 15 seconds	115 seconds	False
4 minutes 20 seconds	260 seconds	True

Varied Fluency 2

Approximately how long would it take to fill a bath?



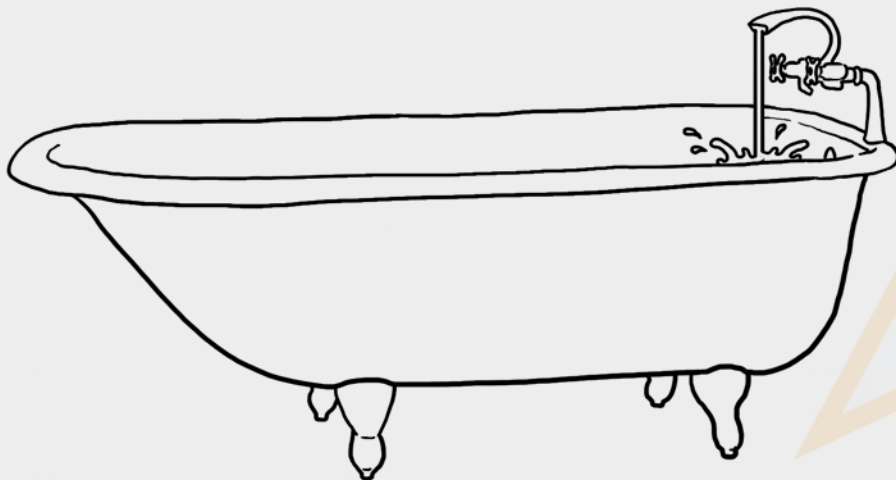
20 seconds

360 seconds

75 seconds

Varied Fluency 2

Approximately how long would it take to fill a bath?



20 seconds

360 seconds

75 seconds

(A bath can take between 5 and 10 minutes to fill.)

Varied Fluency 3

Put these times in order from shortest to longest.

2 minutes 25 seconds

85 seconds

135 seconds

1 minute 20 seconds

Varied Fluency 3

Put these times in order from shortest to longest.

(80 seconds)

1 minute 20 seconds

(1 minute 25 seconds)

85 seconds

(2 minutes 15 seconds)

135 seconds

(145 seconds)

2 minutes 25 seconds

Varied Fluency 3

Put the following stopwatch times in the correct place in the table.

00:03:05

00:01:00

00:01:05

00:00:20

00:03:45

> 180 seconds	< 70 seconds

Varied Fluency 3

Put the following stopwatch times in the correct place in the table.

> 180 seconds	< 70 seconds
00:03:05	00:01:00
00:03:45	00:01:05
	00:00:20

Reasoning 1

Safia uses a stopwatch to time the children in her group as they run around the school field.

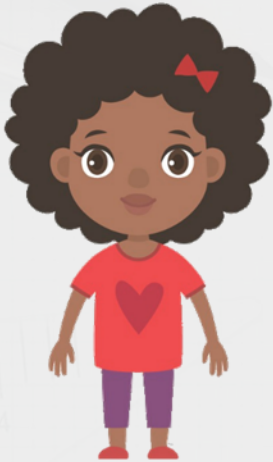


Freddie	250 seconds
Daisy	170 seconds
Hamza	190 seconds
Raheem	135 seconds
Alana	150 seconds

Safia thinks that 3 out of the 5 children are faster than 3 minutes. Do you agree? Explain how you know.

Reasoning 1

Safia uses a stopwatch to time the children in her group as they run around the school field.



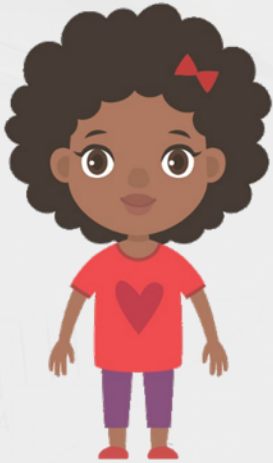
Freddie	250 seconds
Daisy	170 seconds
Hamza	190 seconds
Raheem	135 seconds
Alana	150 seconds

Safia thinks that 3 out of the 5 children are faster than 3 minutes. Do you agree? Explain how you know.

Safia is correct because...

Reasoning 1

Safia uses a stopwatch to time the children in her group as they run around the school field.



Freddie	250 seconds
Daisy	170 seconds
Hamza	190 seconds
Raheem	135 seconds
Alana	150 seconds

Safia thinks that 3 out of the 5 children are faster than 3 minutes. Do you agree? Explain how you know.

Safia is correct because 3 minutes is the same as 180 seconds. Daisy, Raheem and Alana are faster than 3 minutes but Freddie and Hamza are slower.

Reasoning 2

Tim says that in another 160 seconds, the stopwatch will show 4 minutes 50 seconds. Paige says that in another 160 seconds, the stopwatch will show 3 minutes 70 seconds.



00:02:10



Who is correct? Explain how you know.

Reasoning 2

Tim says that in another 160 seconds, the stopwatch will show 4 minutes 50 seconds. Paige says that in another 160 seconds, the stopwatch will show 3 minutes 70 seconds.



00:02:10



Who is correct? Explain how you know.
Tim is correct because...

Reasoning 2

Tim says that in another 160 seconds, the stopwatch will show 4 minutes 50 seconds. Paige says that in another 160 seconds, the stopwatch will show 3 minutes 70 seconds.



00:02:10



Who is correct? Explain how you know.

Tim is correct because 160 seconds is the same as 2 minutes and 40 seconds. If this time is added onto the 2 minutes 10 seconds displayed on the stopwatch, the new time would be 4 minutes and 50 seconds.

Problem Solving 1

One of Jemima's answers is incorrect.

2 minutes 45 seconds = 165 seconds

5 minutes 10 seconds = 310 seconds

4 minutes 15 seconds = 415 seconds



Can you spot and
correct my mistake?

Problem Solving 1

One of Jemima's answers is incorrect.

2 minutes 45 seconds = 165 seconds

5 minutes 10 seconds = 310 seconds

4 minutes 15 seconds = 415 seconds



Can you spot and
correct my mistake?

4 minutes 15 seconds is the same as 255 seconds.