

Friday Maths

L.O. To measure time in seconds.

It is important for children to have a realistic sense of what time in seconds feels like, as they often count in seconds too quickly. They could use a stopwatch to compare, for example, counting to 10 seconds in their heads with the actual timed duration. They recognise that there are 60 seconds in one minute and use this to write durations of time in different ways e.g. 80 seconds is the same as 1 minute and 20 seconds.

Mathematical Talk

What can we use to measure time in seconds accurately?

Can you suggest a task that lasts ____ seconds?

Which task took the longest/shortest time to complete?

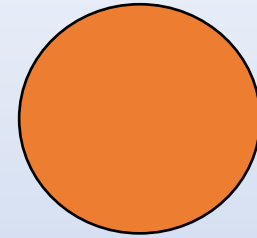
How many seconds are there in 1 minute?

If a task takes longer than 60 seconds, how else could we record the duration of time?

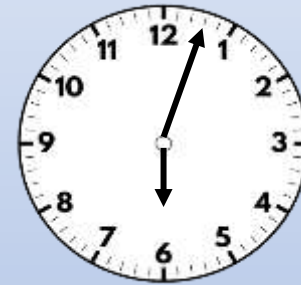
How could we work out how many seconds there are in ____ minutes?

Flashback: How much can you remember?

1) How many hours and minutes are there between 9:15am and 11:45am?



2) What time does the clock show?



3) Complete $\frac{1}{12} + \frac{5}{12} = 1$

4) One side of a hexagon is 5 cm, what is the perimeter of the hexagon?

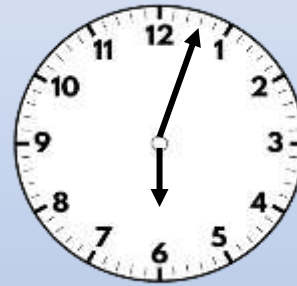


Flashback: Answers

- 1) How many hours and minutes are there between 9:15am and 11:45am?

2 hours and 0 minutes

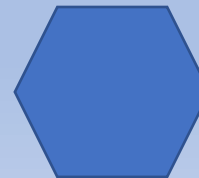
- 2) What time does the clock show?



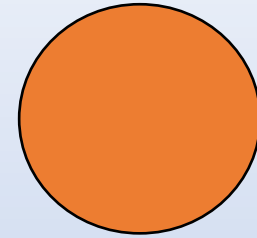
6:03

- 3) Complete $\frac{7}{12} + \frac{5}{12} = 1$

- 4) One side of a hexagon is 5 cm, what is the perimeter of the hexagon?



30 cm



Task:

Children use a stopwatch to find the length of time it takes, in seconds, to complete different tasks. For example, do 10 star jumps, put their socks on, drink a glass of water.

How long did each task take?

Order the tasks based on the time they took to complete.

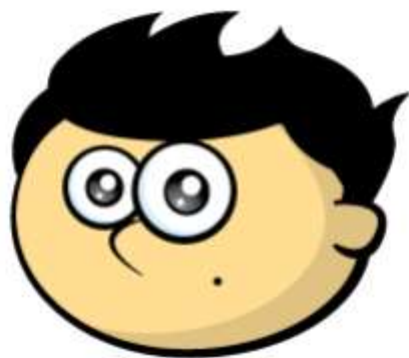
Can you compare the times to someone else in your household? Remember to use mathematical sentences!

Key Words: longer, shorter, quicker, slower.

True or False ?

Measuring time in seconds

If Jack blinked twice every second, he would blink 120 times in a minute.



True

There are 60 seconds in a minute.

If Jack blinked twice every second, he would
blink 120 times in a minute.



Challenge:

Alex takes 153 seconds to skip around the playground.



Jack takes 2 minutes 23 seconds.

Who is the quickest?
Explain how you know.

True or False?

- 3 minutes 5 seconds $<$ 190 seconds
- 4 minutes = 204 seconds
- 170 seconds $>$ 2 minutes 50 seconds

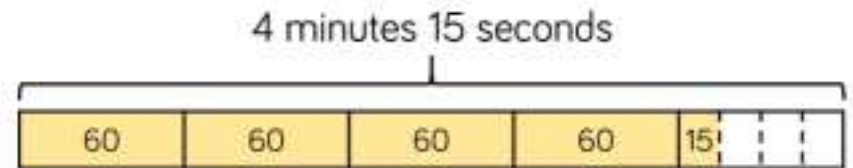
Dora works out how many seconds there are in 4 minutes 15 seconds.

She says,



That's easy, it is 415 seconds.

Dexter uses a bar model to help him.



Each minute has 60 seconds. So it's 4 lots of 60 plus 15.

Who is correct?

Challenge **Answers:**

Jack is quickest. If we convert 2 minutes 23 seconds into seconds it is $120 + 23 = 143$ seconds. So Jack was 10 seconds quicker than Alex.

- TRUE
- FALSE 4 minutes is equal to 240 seconds
- FALSE 170 seconds is equal to 2 minutes 50 seconds

Dora thinks there are 100 seconds in 1 minute, but there are 60. Dexter is correct $60 \times 4 = 240$ $240 + 15 = 255$ seconds.