

Measuring and Comparing Time in Seconds

Lesson
8

In Focus

How many times can you clap in 15 seconds?




Activity Time

Work in pairs.

What you need:



- ① Guess how many times you can clap in 15 seconds.
- ② Ask your partner to time 15 seconds on the .
- ③ Count how many times you can clap in 15 seconds.
- ④ Take turns to repeat ① to ③.

Compare how long each person takes to count to 50.

What other activities can you do in 15 seconds?



I took more time than you did.



You counted faster!



Guided Practice

Fill in each blank with a whole number.

(a)



The time taken is more than seconds but less than seconds.

(b)



The time taken is more than seconds but less than seconds.

(c)



The time taken is more than seconds but less than seconds.

Think of something that you can complete in these times.

(d)



The time taken is more than seconds but less than seconds.

(e)



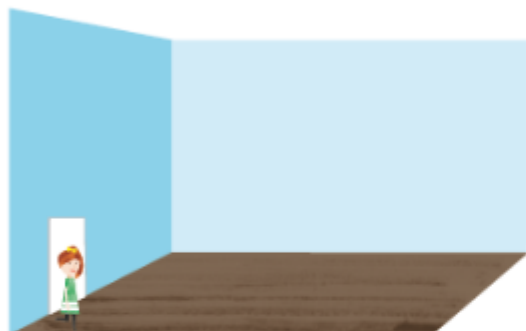
The time taken is more than seconds but less than seconds.



Measuring Time in Seconds

Lesson 9

In Focus



Use a stopwatch to measure the time.

How long does it take to walk from one end of the room to the other?



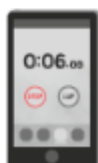
Let's Learn

1 How much time did each child take?

8 seconds > 6 seconds



took about 8 seconds.



took about 6 seconds.



took more time than



.



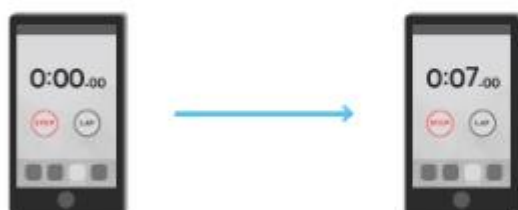
Guided Practice

- 1 Emma used a stopwatch to find out how many seconds her friend took to run 100 metres.



Emma's friend took about seconds.

- 2 Sam used his phone's stopwatch to find out how many seconds his dog took to find a hidden ball.



Sam's dog took about seconds.

Measuring Time in Seconds

Lesson 10

In Focus



The second hand moves rather fast.



Look at the second hand on a clock.
Let's use a clock in an experiment with a pendulum.



Pull the pendulum to one side.



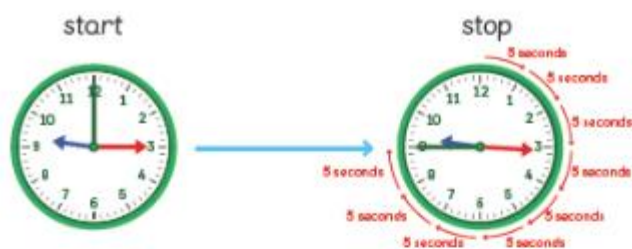
Let the pendulum go.



We count this as one swing (across and back).

Count how many swings the pendulum makes in 20 seconds.

3 How many seconds went by?



seconds went by.

We can write
s for seconds.



4 How many seconds went by?



seconds went by.

Guided Practice

Sam burns a small strip of metal in an experiment.
He uses a clock to measure the time it takes to burn the metal.
He did the experiment 4 times.



Let's Learn

1 How long is 20 seconds?



5 seconds



10 seconds



15 seconds



20 seconds



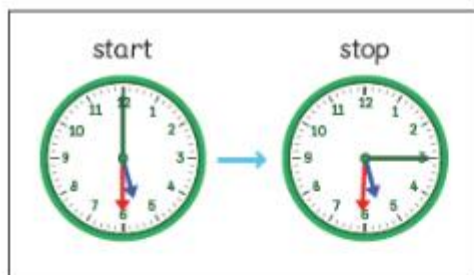
2 Do the experiment a few times.

experiment	number of swings in 20 s
1	
2	
3	
4	

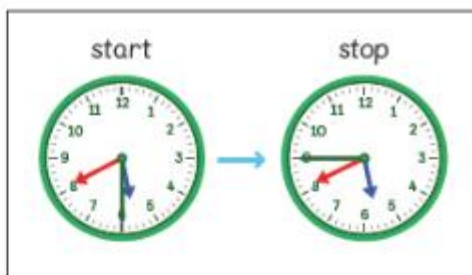
Use a clock to measure 20 seconds.



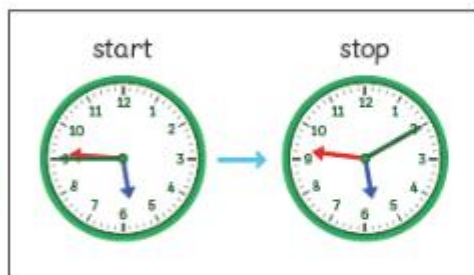
Experiment A



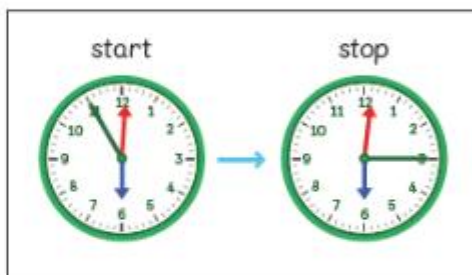
Experiment B



Experiment C



Experiment D



- (a) Compare the times taken in experiment A and experiment B.
What do you observe?
- (b) Compare the times taken in experiment C and experiment D.
What do you observe?
- (c) In which experiment did the metal take the longest time to burn?