

Lighthouse

[twinkl.com/imagine/light](https://www.twinkl.com/imagine/light)

Think



- What is this?
- What does it do?
- Is it manned or unmanned?
- Who lives here?
- How strong is the bulb?



Solve



There are 174 steps in a lighthouse. It takes the lighthouse keeper 8 minutes 42 seconds to climb to the top. How long does it take to climb each step on average?

Discuss



Read the story of Grace Darling, a lighthouse keeper's daughter, and her heroic actions. There are similar heroic actions made every day by the men and women of the RNLI. These people give their time and risk their lives voluntarily. Should this be the case or should they be paid for what they do? Should they be treated as another emergency service and be funded in the same way? Why do we need them?

Discover



Fact: The first lighthouse was Egypt's Pharos of Alexandria which was built around 300BC by Ptolemy I and his son, Ptolemy II. It was made from a fire on a platform to signal the port entrance and stood about 450 feet high. It was one of the Seven Wonders of the Ancient World.

Question: What can you research about the other Seven Wonders of the Ancient World? What were they?

Respond



You are a lighthouse keeper all alone on a dark and stormy night. The wind is howling, the rain pounds against the windows. Suddenly, the main light goes and the lighthouse is in darkness. Not far away a fishing trawler is heading towards the rocks, the skipper barely able to see through the storm...

Reimagine



This scene looks very peaceful and tranquil, but can you draw a scene that shows the lighthouse in a stormy sea? Is there a boat heading towards the cliffs?

Lighthouse **Answers**

How long does it take to climb each step on average?

First convert time taken to climb the lighthouse to just seconds.

8 minutes 42 seconds = $480 + 42 = 522$ seconds

Now divide the time taken by the number of steps.

$522 \text{ seconds} \div 174 \text{ steps} = 3 \text{ seconds per step}$